PNOmation II
Upgrade Instructions
User Guide
Driver Version 3.3x

QRS is revolutionizing the player-piano industry with the introduction of its latest player technology, PNOmation II . PNOmation II is the most advanced player-piano system available on the market today. Just take a glance at some of its great features, and you will see why new and current customers are upgrading to the latest in player technology.

BETTER AESTHETICS

PNOmation II is an invisible player. With PNOmation II , there is no visible front-end controller mounted under the piano keyboard. Enjoy the benefits of a player without altering the appearance of your piano.

BETTER USER EXPERIENCE

PNOmation II offers the industry's best user experience. PNOmation II not only functions as a stand-along player system, but also as a node on your home network. With PNOmation II's web-enabled user interface, the possibilities are endless: create playlists and control your player piano with an iTouch, iPod, Android, or any web-enabled phone; or use a PC or MAC on your home network.

BETTER PERFORMANCE

PNOmation II features enhanced playback abilities with superior execution of dynamics. The softest pianissimos and loudest fortissimos offer greater extremes of expression and produce more convincing musical performances. PNOmation II also dramatically improves the control over the sustain pedal solenoid which allows for quieter sustain pedal operation and more accurate performance.

BETTER DESIGN

PNOmation II incorporates PNOscan II , the player industry's leading MIDI recording tool.

BETTER NOW, BETTER LATER

PNOmation II is a simple and easy upgrade. It only takes four screws to swap the PNOmation II processor into your existing player system, and it has been designed from the ground up to integrate with your existing system while offering the latest, cutting-edge technology. PNOmation II is also prepared for the future, as it is high-bandwidth ready for next-generation MIDI standards.

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PMII Upgrade Kit Installation Instructions - 81525

81525	PMII Upgrade Kit		**Package Contents**
	80108		PNOmation II Processor Assembly
		80108A	1 PMII Processor Only
		990026	1 Cable: Speaker [1/8" stereo plug to two RCA]
		70213	1 Cable [6" - RCA M Plug - 2 RCA F Jacks]
		80109	2 Mounting brackets [New - Metal]
		37322	4 Screws: Mounting
	79226		SD Card with the QRS Music Library
	80124		PLx - Pin-Light Port Extender Package
		8012406	1 PLx Unit: Lights, IR Sensor; Stereo & USB Ports; Microphone; Button
		50126	2 Cable: USB A Male to USB 5-Pin Mini B [1 for computer connection to PMII]
		50128	2 Cable: Audio [1/8" Male to 1/8" Male] 6.5'
		50141	1 Cable: USB Male A to USB Male B
		790185B	1 Cable: 72" Six-Pin Ribbon [Black]
		35271	4 Screw
	79227		Portable Wireless Assembly - TRENDnet [79227A] DISCONTINUED
			Universal power adapter (+5V/1.2A, 100V~120V) Center +
			Cable: USB A to Trendnet's power jack
			Cable: RJ45 Ethernet
		50074	Velcro Strip [Use to attach WiFi to beam or back post]
			OR
	79224		Portable Wireless Assembly - ASUS [79224A]
			330gE - Universal power adapter (5V/1A, 100V~240V)
			330N3G - Cable: USB A to Asus' power jack
			Cable: RJ45 Ethernet
		50074	Velcro Strip [Use to attach WiFi to beam or back post]
	70204		5 Cable Ties
	30403		1 Screw Driver [Right-Angled Phillips #2 to remove old processor]
	70208		3 Clamp [Wave Shaped Ribbon]
	70585		3 Screws for Clamp [6x1/2"]
	30409		1 Screw Driver [Snub-Nosed Phillips]
	70152		1 Cable: 10' MIDI
	7921706		1 Cable: 10-Pin [Use with 10-Pin Coupler to extend PNOscan cable to PMII]
	8152503		1 Coupler: 10-Pin
	81525i		1 PMII Upgrade Instructions

WL-330gE

WL-330N3G

81529	PMII MIDI Upgrade Kit		Package Contents
	81525		PMII Upgrade Kit - See above
	8152905		PMII Upgrade Kit to PMII MIDI Upgrade Kit Conversion
		70166	2 Adapter: MIDI Barrel Connector
		990026	Cable: Speaker [1/8" stereo plug to two RCA]
		8152501	**Power Adapter** [Power supply for PMII]
		2007116	2 Cable: 6' MIDI
		73398	PMII Big Button Remote
		70388	4 AAA Batteries

PMII MIDI Kit Installation Instructions - 81529

The PNOmation II Controller can be used as a MIDI file player to control other player piano products. Other than the addition of a power adapter, remote and MIDI connectors, the 81529 PMII MIDI kit connects the same as the 81525 PMII Upgrade kit.
Note: **The QRS PMII unit will NOT adjust the minimum key force levels of the piano**.

1 Verify that the player piano operates properly before connecting the 81529 PMII MIDI Kit.

2 Mount the Pin-Light Extension [PLx] box as shown on page 8.

3 Mount the PNOmation II Controller to the piano within cable length of the PLx box.

4 Connect the PMII Controller to the PLx box using the cables provided. *See page 8 for details.*

5 Mount and connect the Wi-Fi device. Ethernet cable and the power adapter.

6 Connect the MIDI cable, provided, from the PMII MIDI OUT socket to the MIDI IN socket of your player.

7 If the piano has a key scan unit, for recording the piano, connect it to the PMII Controller.

QRS PNOscan units connect via a flat ribbon cable, as shown below, or a standard 5-pin MIDI cable.

Use the MIDI OUT socket to connect other MIDI record units to PMII.

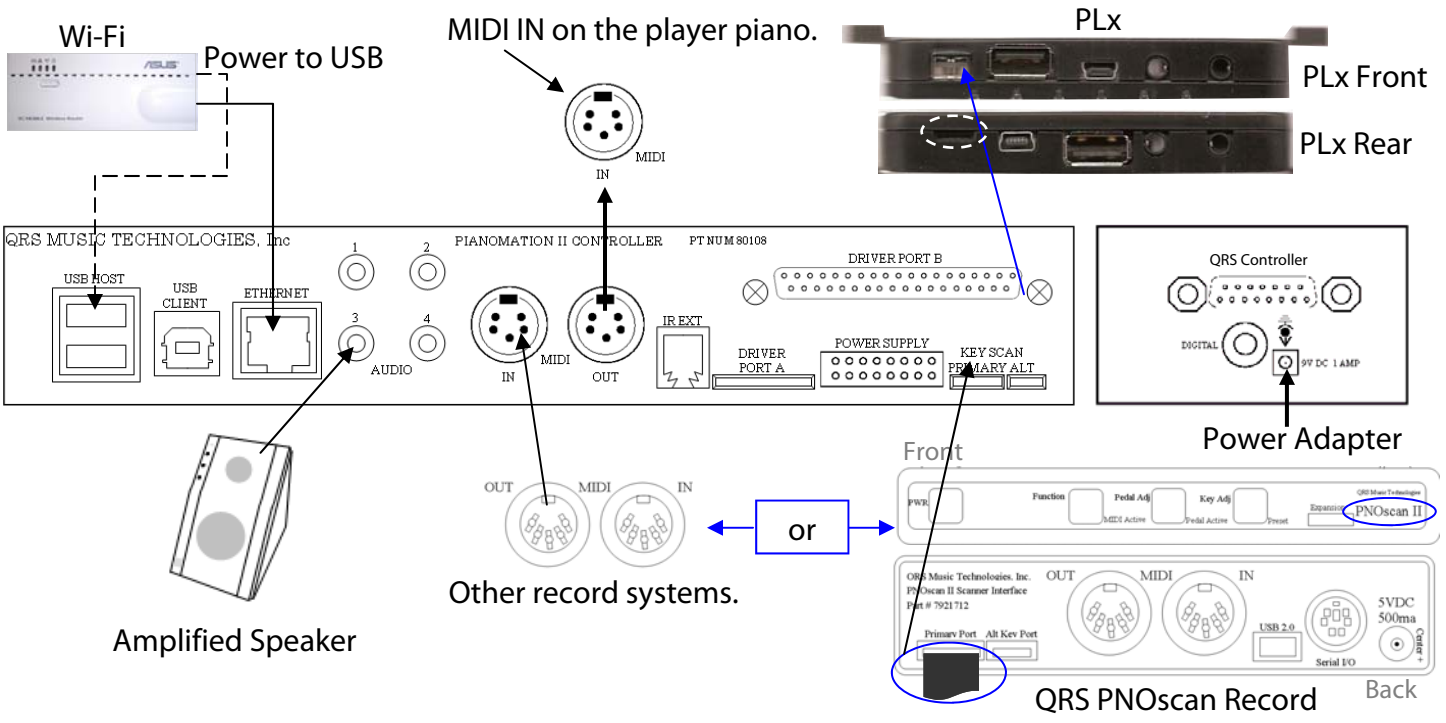
8 Connect a powered speaker to Audio port #3.

9 Connect the power adapter to the PMII Controller and then to an AC outlet.

The PMII will power up as soon as it's connected to power. The PLx lights will begin scanning and the power on process will take several minutes.

10 Continue with the User Guide on page 13.

Note: You may have to adjust the MIDI OUT Curves within the PMII interface.



Note: Use the "MIDI Out Key Adjust" to calibrate the key force.

1	**Remove the Existing Pianomation Processor**

Turn OFF the player system and unplug the AC power cord from the wall outlet.

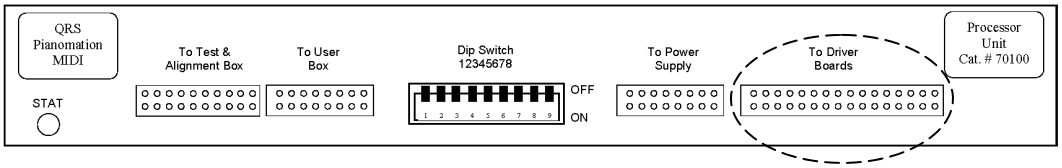
Locate the Pianomation processor. It's within a foot of the power supply.
The power supply is a black box the size of a loaf of bread.

- On a GRAND piano the processor is mounted to a beam under the soundboard area.
- On an UPRIGHT piano remove the lower panel to gain access to the power supply.

Flip the ON/OFF switch on the power supply to the OFF position.

Disconnect all of the cables from the old Pianomation processor.

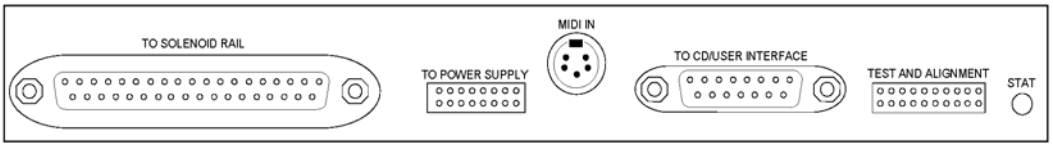
Older processors, part # 70100 - circa 1992-1997, use a different type of "To Driver Boards" connector needed to connect the new processor to the driver boards located at the solenoid rail.

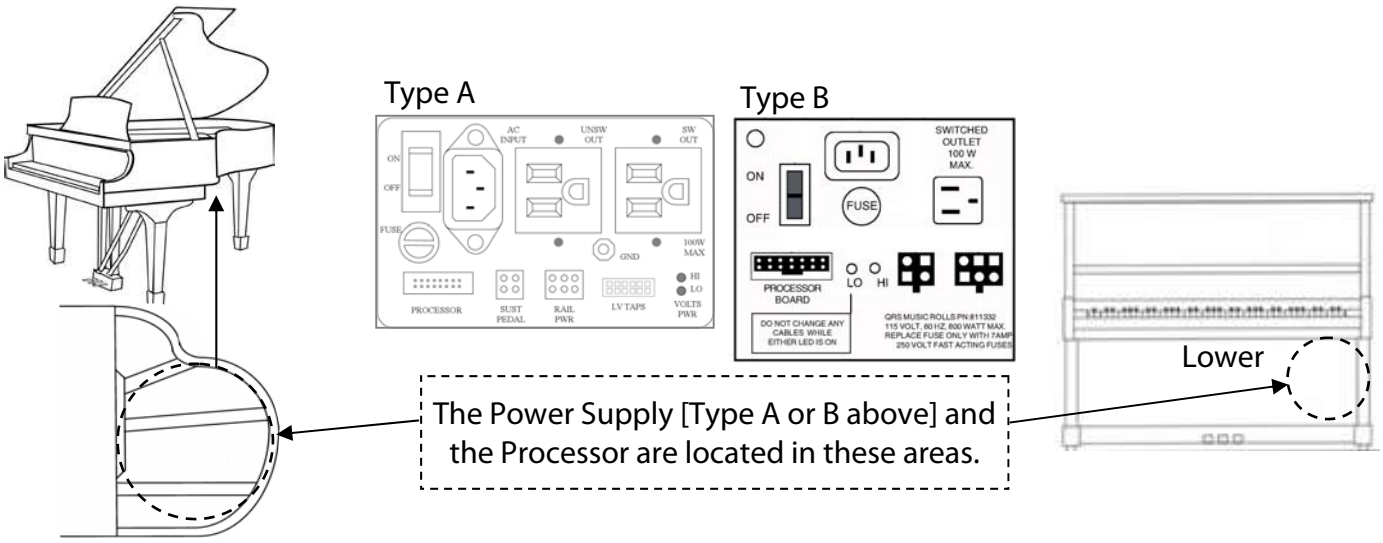


If you have the type of processor shown above you will need to replace the "Note Driver Signal Cable".
Order part # 811433

- TO SOLENOID RAIL *[To Driver Boards] This ribbon cable may be held in by two small screws.*
- TO POWER SUPPLY
- TO CD/USER INTERFACE *[To User Box]*

Remove the old Pianomation processor and brackets from the piano by removing the 4 screws.





2 Mount and Connect the New PMII Processor

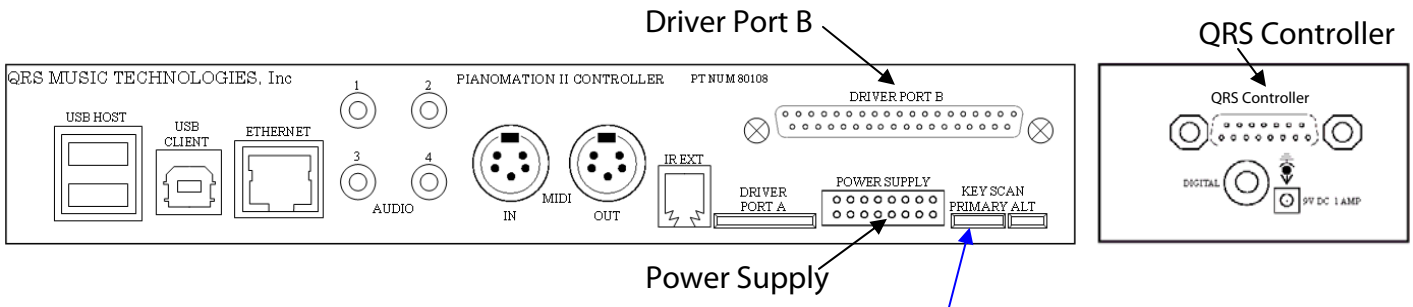
Mounting the new PNOmation II processor to the piano.

When upgrading a current system, place the new processor in the same location as the original.
On a new system installation with record, place the processor in a location where all of the cables will reach:
Driver Port B - To Driver Boards
Power Supply
Keyscan Primary - To the record system's Soft-Shift circuit board.
Position it so that the connectors are easily accessible.
The mounting brackets are attached to the processor when shipped.
Secure the new PMII processor to the piano with the screws provided.

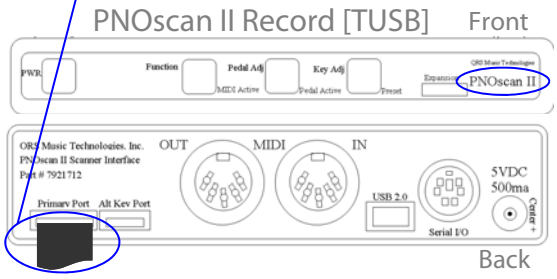
Mounting Brackets - Three different style brackets used.

Connect these cables to the new PNOmation II processor.

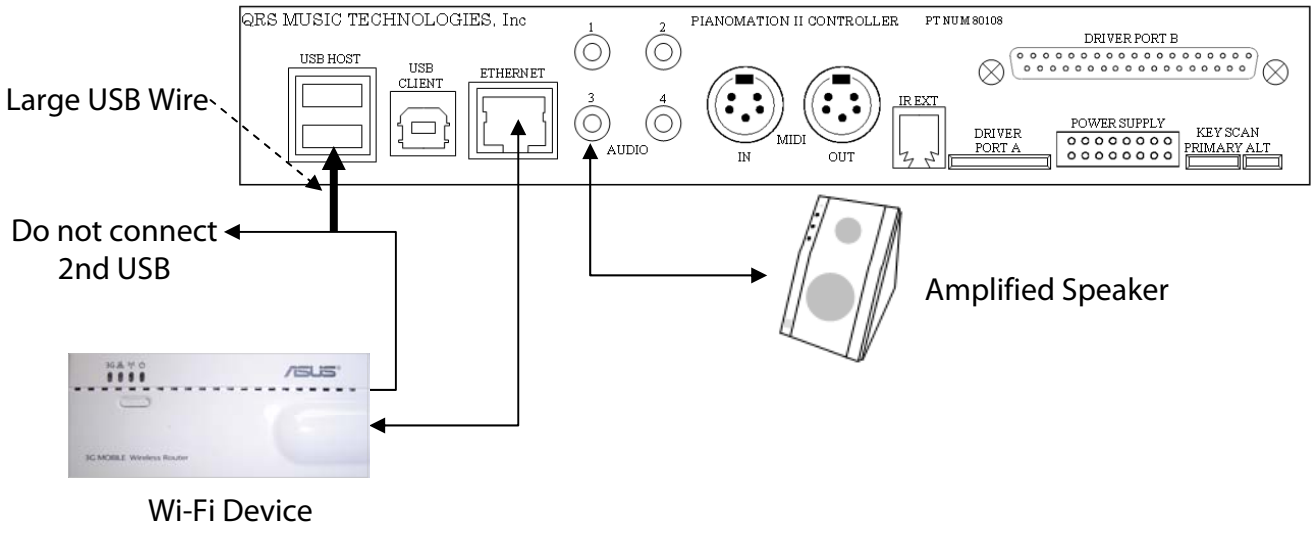
- "DRIVER Port B" This is the 1-1/2" flat gray cable going to the driver boards
- "POWER SUPPLY" This is the 3/4" flat gray cable going to the power supply
- "KEYSCAN PRIMARY" - QRS PNOscan Record Systems Only -
  White flat cable coming from the record system's Soft-Shift circuit board and it may be connected into the PNOscan II interface under the piano keybed. If so, disconnect it from the PNOscan interface. Front and rear views of this PNOscan II unit is shown at the bottom of this page.
- "QRS CONTROLLER" located on the side of the PMII chassis.
  It is not necessary to reconnect your original QRS controller for proper operation of PMII.



The TUSB control box for the PNOscan II record system, shown here, is not needed with the new PNOmation II system. If you're upgrading an existing QRS Pianomation system with PNOscan II record, disconnect the flat white cable (black on newer units) from the Primary Port and plug it into the Pianomation II Controller's Keyscan Primary port. The silver "contact" side of the cable faces away from the word "Primary".



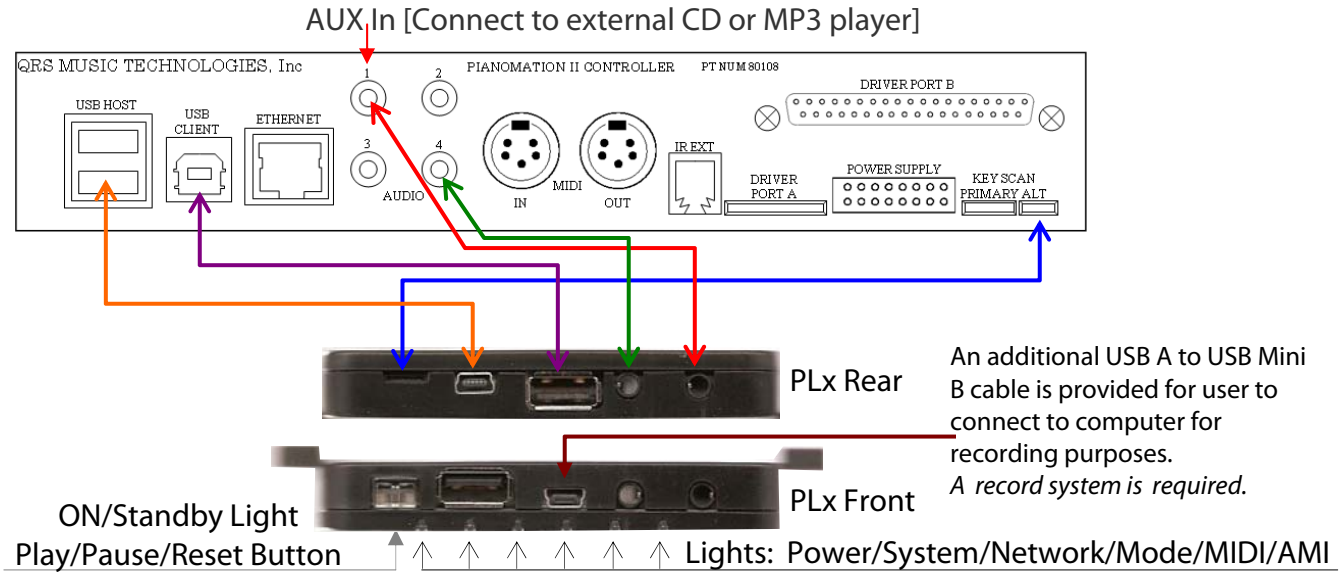
3	**Mount and Connect the Wi-Fi Adapter and Speaker**
Connect the Ethernet cable from the wireless to the Ethernet port on the PMII processor.	
Power the ASUS using the USB cable. Mini end to ASUS and the large-wire USB end to the USB HOST port. Do not connect the second USB connector from the ASUS power.	
Using the Velcro strip supplied, attach the wireless unit to the piano .	
Connect your powered speaker to Audio #3 jack. *Use the 1/8" stereo-to-RCA cable provided.*	



PMII Upgrade Kit Installation Instructions - 81525

4	**Mount and Connect the Pin-Light Extension - PLx**
The Pin-Light Extension serves several functions:	
	Six lights will display valuable information about your system.
	The built-in IR Sensor will allow you to use your existing QRS Remote to control PMII.
	USB A- USB Mini B & 1/8" stereo jacks extend the ports from PMII to an accessible position on the piano.
	The button is for Play / Stop / Standby and Reset.
Mount the PLx unit to the piano.	
	We suggest mounting the PLx unit under the keybed at the treble side of the piano.

Connect one end of the 6-pin flat ribbon cable to the PMII's "ALT" port. *The black side of the cable faces the word "ALT"*
Connect the other end of the 6-pin flat ribbon cable to the PLx connector. Connect so t*he black side faces the ceiling.*
Connect the USB A Male cable to one of the USB Host sockets on the PMII.
Connect the other end of the cable, USB 5-Pin Mini B, to back of the PLx. *Used for updates and music access.*
Connect the USB B Male cable to the "USB Client" port o the PMII.
Connect the other end of this cable, USB A Male, to the back of the PLx. *This is used to record to a computer.*
Connect one end of a 1/8" audio cable to the PMII's Audio #1 socket.
Connect the other end to the last 1/8" socket of the PLx. *This is the PMII External Source's Line Input [AUX] port.*
Connect one end of a 1/8" audio cable to the PMII's Audio #4 socket.
Connect the other end to the remaining 1/8" socket of the PLx. *This will be used for Headphones.*



5	**Verify Operation**

Connect to Power and Turn ON to Standby Mode

Plug the AC power cord into a wall outlet.

Flip the power supply switch to the "ON" position.

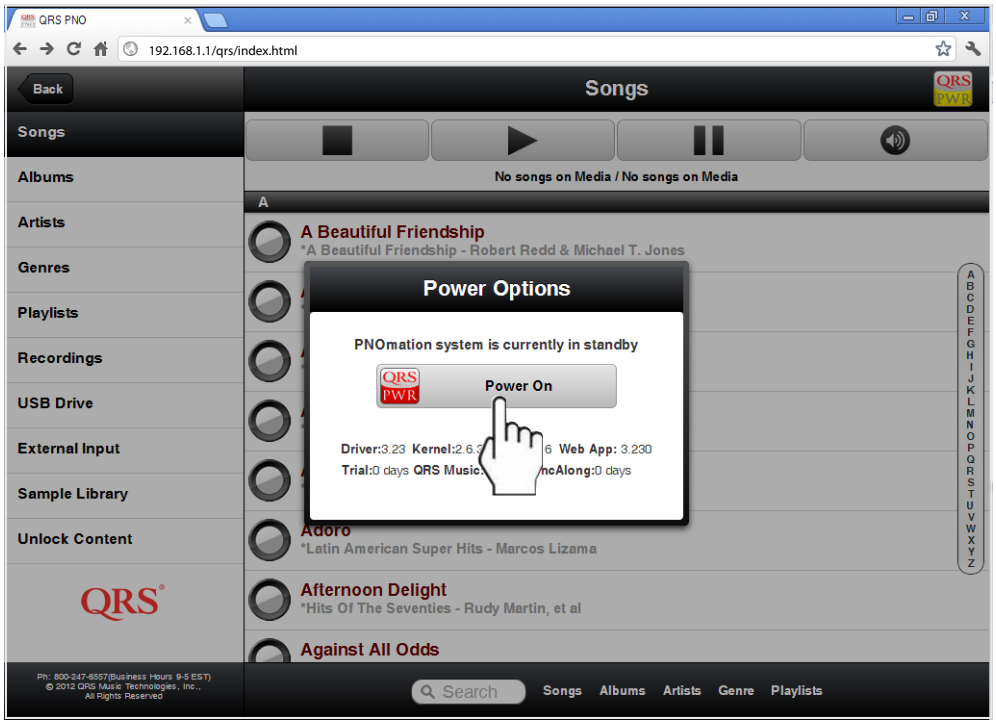
PNOmation II will take several minutes power on.
During this power-on/boot sequence PMII is loading the operating system and indexing the music on the SD card. You may remove the SD card for faster boot time during initial setup and service.
Note: Once removed, the SD card must be re-inserted before flipping ON the power supply switch.

The system has booted and is in standby when PLx lights stop scanning and the Power light is yellow.

Establish a Wireless Connection and Power ON

Wirelessly connect your iTouch, iPad, Wireless Computer or Android device to the piano's Wi-Fi Adapter.
[Settings / Wi-Fi / click on the QRSPNO ### device]
Open your Safari, Google Chrome or Android internet browser.
In the address box type: 192.168.1.1/qrs and refresh your browser.

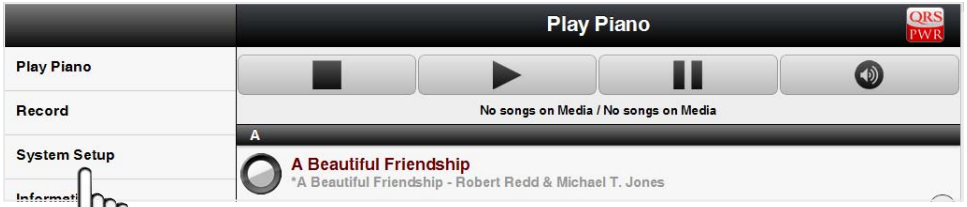
Press the Power ON button

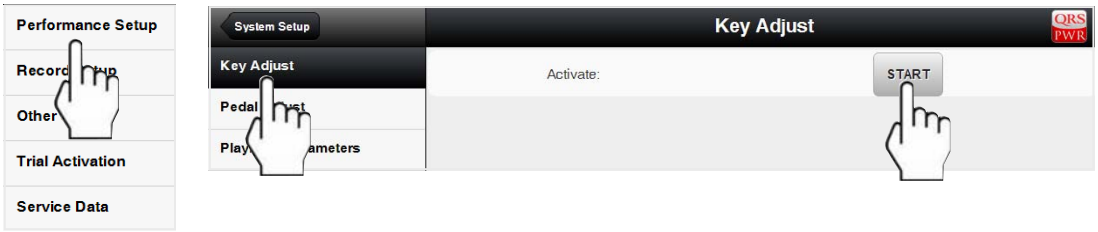


The "Power", "System" and "Network" lights should be green.

Performance Setup

Key Adjust
If this is a MIDI Upgrade Kit go to the "MIDI Out Key Adjust" page. *The "MIDI" kits (81529) do not have a cable connected to the PMII "DRIVER PORT B" socket.*
The key adjustment sets the minimum force for each key. There is no "save" button. Your changes are automatically saved to memory.
Press "System Setup", Performance Setup" and then "Key Adjust"



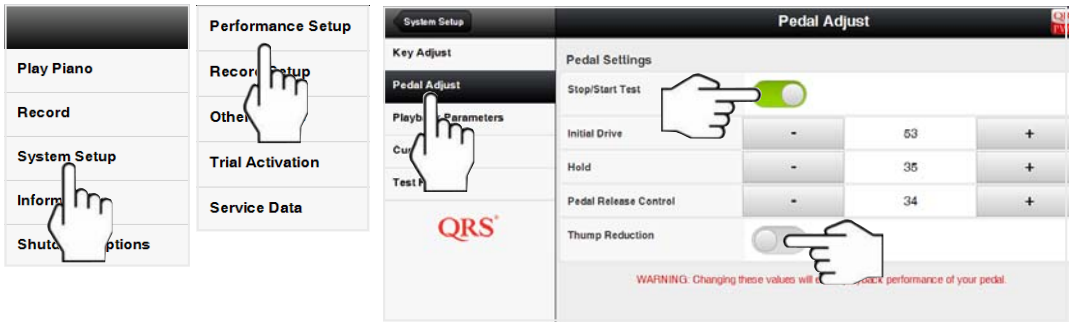


Piano key #5 should begin to repeat. [*Key #1 for 88 note systems*]
You must adjust the Legato AND Staccato Force levels for each key.
Set the Legato adjustment first.

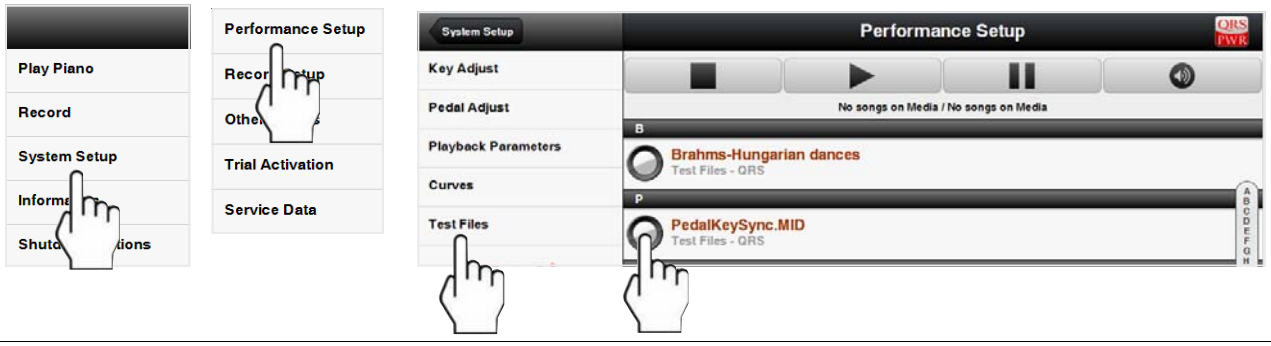
<- 5 ->	Previous Key / Key Number / Next Key
Less 44 More	Key "Force": Legato & Staccato. Adjust so key plays as softly as possible.
xtnd->	"Extend": Sets the Force value "displayed" to all notes upscale.
Global	Clicking "More" or "Less" increases or decreases the force for **ALL** Keys.
	Entering a number in the force box sets the Key Force value entered to **ALL** Keys.
<< >>	Chromatic Scale: Down/Up. Use as a final test.
EXIT	Please press the EXIT button when finished. Otherwise the note will continue to play.

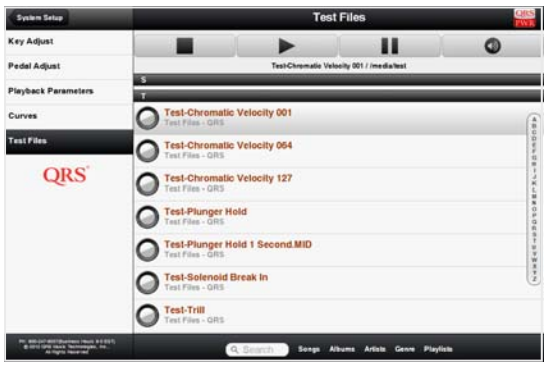
Performance Setup

Pedal Adjust
This procedure is not necessary on systems that do not have a sustain pedal solenoid, usually on uprights .
Press “System Setup”, Performance, “Pedal Adjust” and slide the “Start/Stop Test” button to the right.
The sustain pedal solenoid and the sustain dampers should start to cycle ON and OFF.
Turn OFF the “Thump Reduction” by sliding the button to the left.
Press the “-” buttons to set the “Initial Drive” and “Hold” values to zero.
Watch the sustain dampers and press the Initial Drive’s “+” button until the dampers move off the strings.
Then, press the Hold “+” button until the dampers lift up and hold off of the strings.
Turn ON the “Thump Reduction” to pulse the solenoid as it’s release to break it’s fall and reduce noise.
Adjust the release up and down until the solenoid drops quietly.
Stop the adjustment by sliding the “Start/Stop Test” button to the left.



Test Files
Press “System Setup”, Performance Setup, “Test Files”
Select “PedalKeySync.MID to test your pedal adjustment.
Check out other test files.





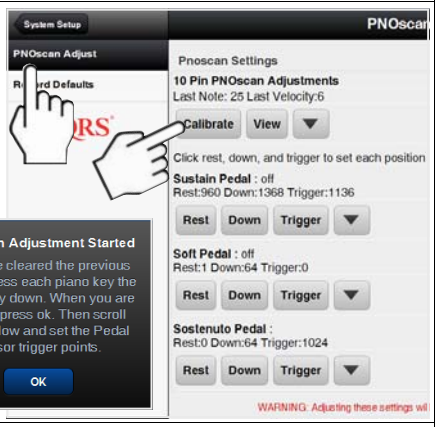
Performance Setup

PNOscan Adjust

When PNOmation II is connected to the QRS PNOscan II record system the PNOscan Adjust option will appear on the System Setup/Record Setup page. The following adjustments are necessary after initial installation or when the system isn't recording properly.

Select the PNOscan Adjust option from the System Setup / Record Setup page.

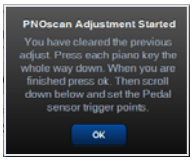
Press the Calibrate button.


System Setup
PNOscan Adjust
PNOscan
Pnoscan Settings
10 Pin PNOscan Adjustments
Last Note: 25 Last Velocity:6
Calibrate
View
Click rest, down, and trigger to set each position
Sustain Pedal : off
Rest:960 Down:1368 Trigger:1136
Rest
Down
Trigger
Soft Pedal : off
Rest:1 Down:64 Trigger:0
Sostenuto Pedal :
Rest:0 Down:64 Trigger:1024
PNOscan Adjustment Started
You have cleared the previous adjust. Press each piano key the whole way down. When you are finished press ok. Then scroll down below and set the Pedal sensor trigger points.
OK

The "PNOscan Adjustment Started" box will appear.
At this point the previous calibration has been cleared.

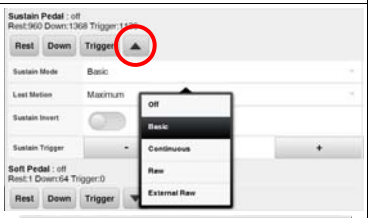
To calibrate the PNOscan key sensors you're going to play each key, in sequence, starting at the bass end of the keyboard. Watch the MIDI light on the PLx box and press the first bass-end key.

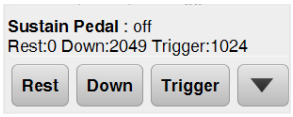
The light will flicker red indicating that the key is set.
Release the key and proceed up the keyboard.
Move to the next key when the PLx light flashes.

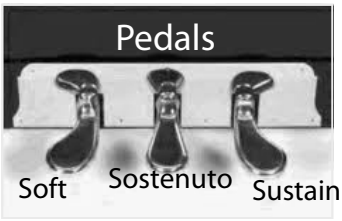

PNOscan Adjustment Started
You have cleared the previous adjust. Press each piano key the whole way down. When you are finished press ok. Then scroll down below and set the Pedal sensor trigger points.
OK

Press OK when finished.

Adjust the Sustain Pedal.
Click the arrow to the right of the Trigger button.
Verify that the Sustain Mode is Basic.
Wait for changes in the Rest, Down and Trigger values as you make adjustments.
Press the Rest button.
Depress the sustain pedal and press the Down button.
Release the pedal and depress until the strings sustain.
Hold the pedal and press the Trigger button.





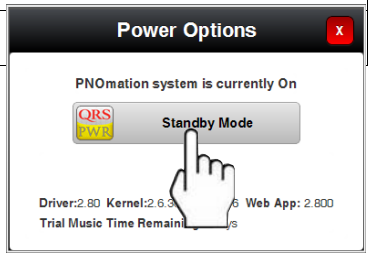


Adjust the Soft Pedal.
Follow the same procedures above with the soft pedal.

No adjustments are necessary for the Sostenuto pedal.

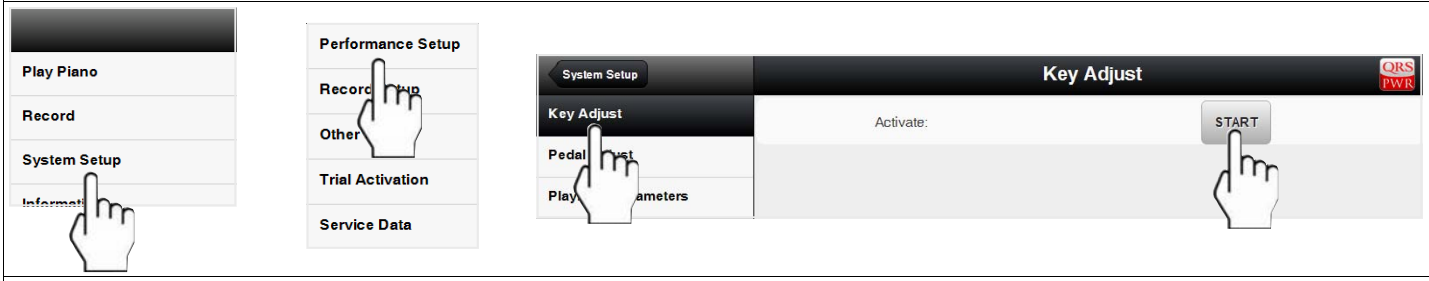
The PNOscan adjustments are complete.
Continue to the User Guide on the next page.

Always put the system in Standby Mode when you are finished for the day.

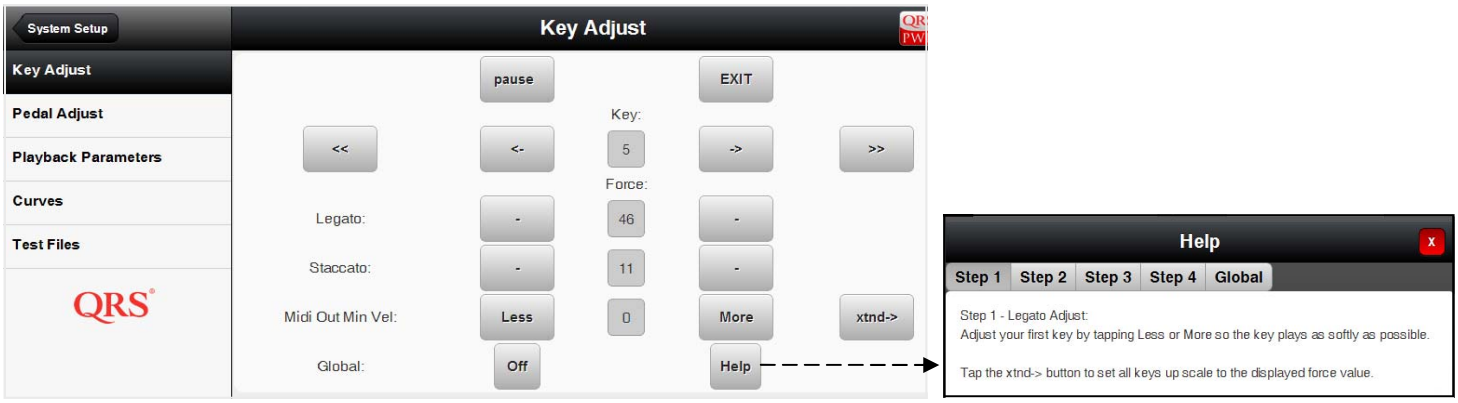


Performance Setup

MIDI Out Key Adjust
This procedure is used when the PMII **MIDI Kit #81529** is connected to a piano with a non-QRS engine. In these installations the only connection from the PMII processor to the piano is via the 5-Pin MIDI Out socket. PMII MIDI Out to the MIDI In of the piano.
You MUST call QRS Technical Support for the release key to turn on the 5-Pin MIDI Output!
The non-QRS player system attached to the piano must be in good working order and the key force settings adjusted. The following PMII key adjustments cannot soften the volume of the keys softer than the piano's key force settings.
The key adjustment sets the minimum force for each key. There is no "save" button. Your changes are automatically saved to memory.
Press "System Setup", Performance Setup" and then "Key Adjust"



Piano key #5 should begin to repeat.
You must adjust the Legato AND Staccato Force levels for each key.
Set the Legato adjustment first.



<- 5 ->	Previous Key / Key Number / Next Key
Less 44 More	MIDI Out Min Vel: Adjust so key plays as softly as possible.
xtnd->	"Extend": Sets the Force value "displayed" to all notes upscale.
Global	Clicking "More" or "Less" increases or decreases the force for **ALL** Keys.
	Entering a number in the force box sets the Key Force value entered to **ALL** Keys.
<< >>	Chromatic Scale: Down/Up. Use as a final test.
EXIT	Please press the EXIT button when finished. Otherwise the note will continue to play.

Power ON to the PNOmation II User Interface

Determine the status of the system by looking at the lights on the PLx box.

If all of the PLx box lights are off, the power may be disconnected:

Plug the AC power cord into a wall outlet.
Flip the system's power supply switch to the "ON" position.

If the first two or more lights are yellow, the system has shut down:

Unplug the AC power cord from the wall outlet...
Wait two minutes and then reconnect.

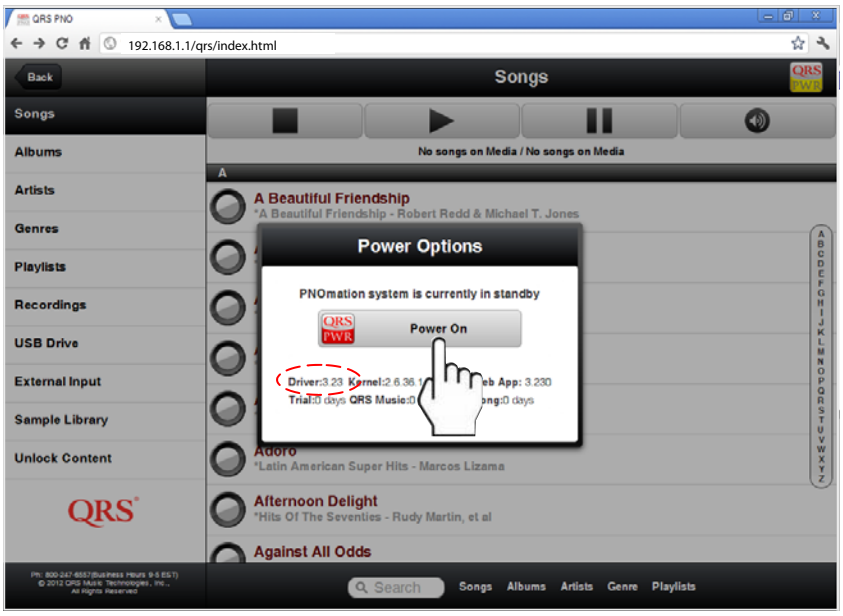
PMII will take several minutes to power on. During this power-on sequence the PLx lights will scan until PMII has loaded the operating system and indexed the music on the SD card.
Note: The SD card MUST be inserted BEFORE powering on the system.

If the first light is yellow and the second is green...
The system is in Standby mode:
Continue below to power on...

If the third light is yellow, the system is in Network Mode...
You won't be able to connect using the IP address listed below.
Call the QRS Technical Support department for help.

Wirelessly connect your iTouch, iPad, Wireless Computer or Android to the piano's Wi-Fi Adapter.
[Settings / Wi-Fi / click on the QRSPNO ### device]
Open your Safari, Google Chrome or Android internet browser.
In the IP address box type: 192.168.1.1/qrs and refresh your browser.

Note the Driver number, circled in red below.



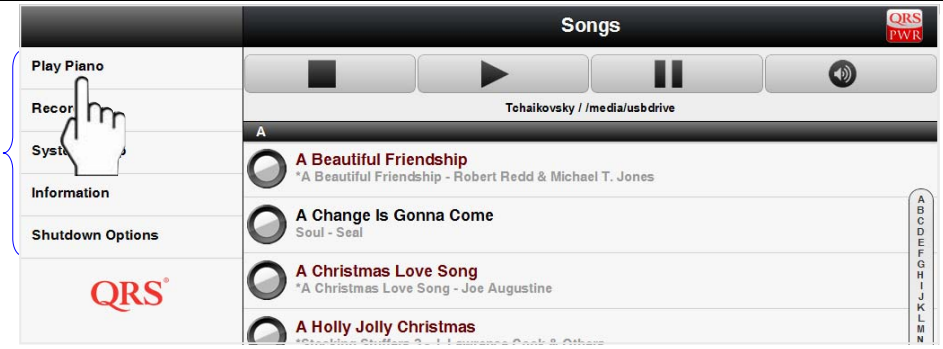
Press the Power ON button

To check on the latest Driver update, connect to your home network go to:
http://www.qrsmusic.com/support_pmii.asp

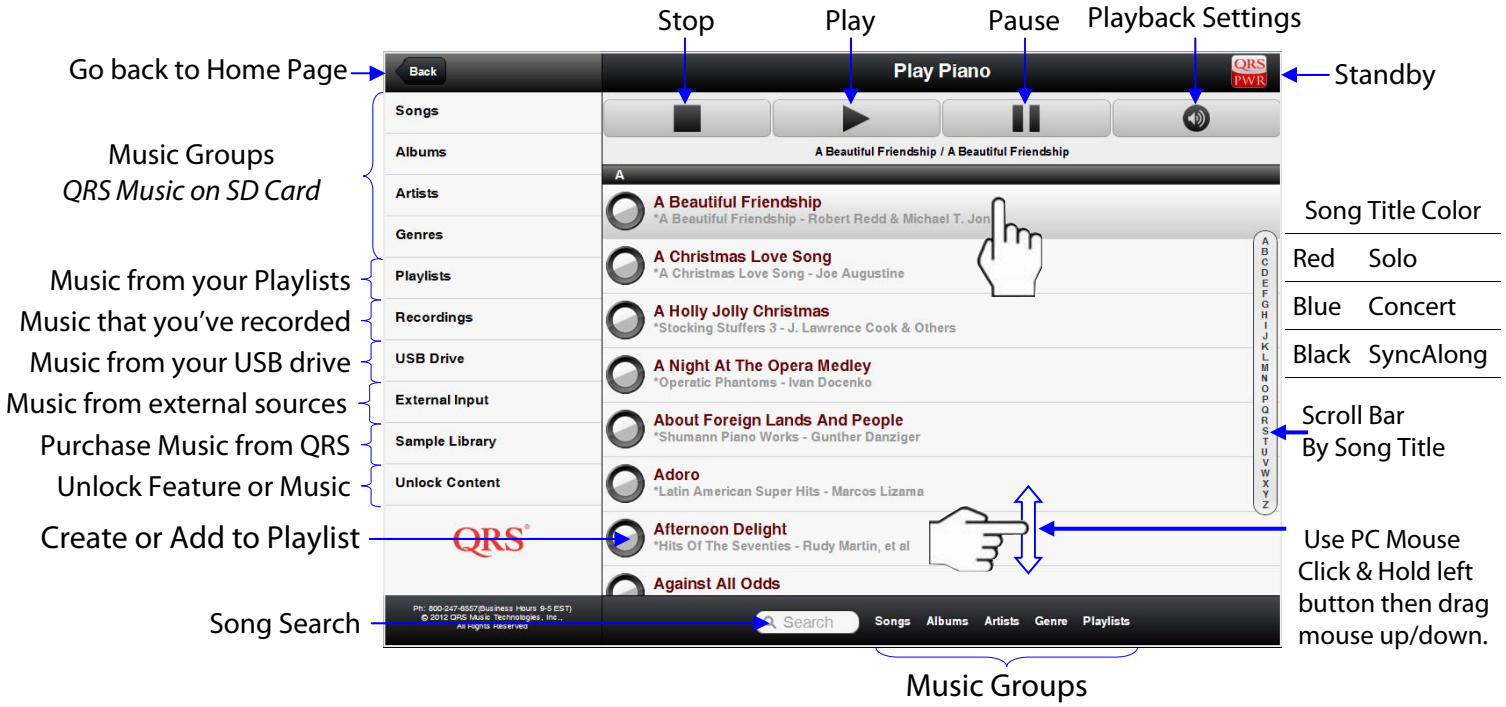
The system is powered on and ready to play.

User Guide

Play Piano

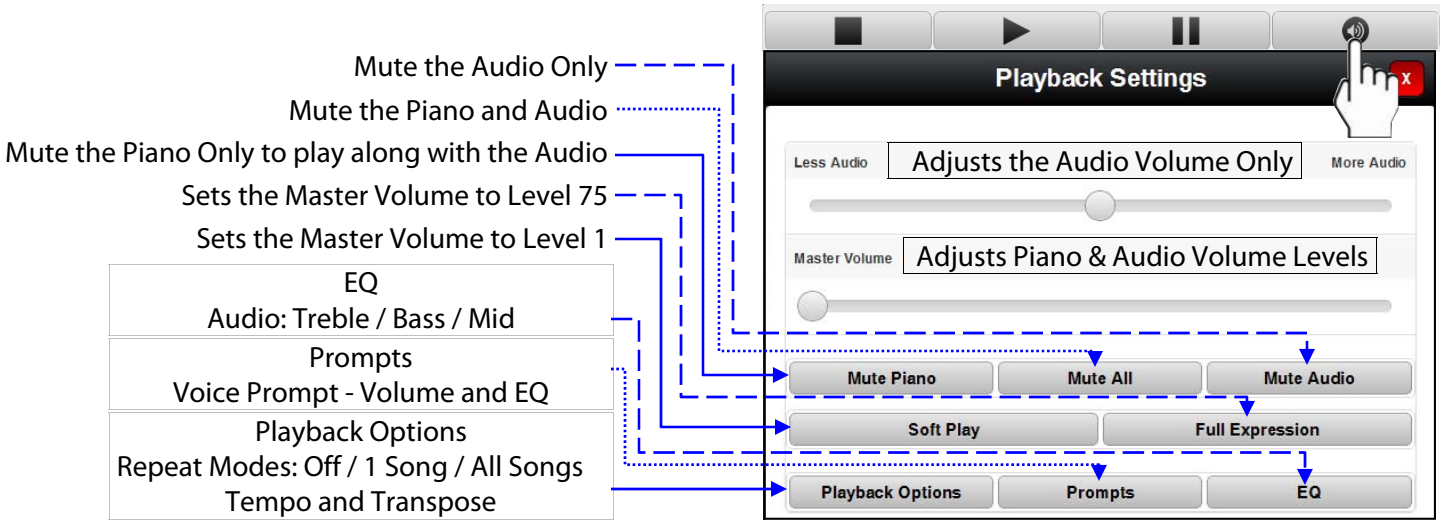


Button Descriptions

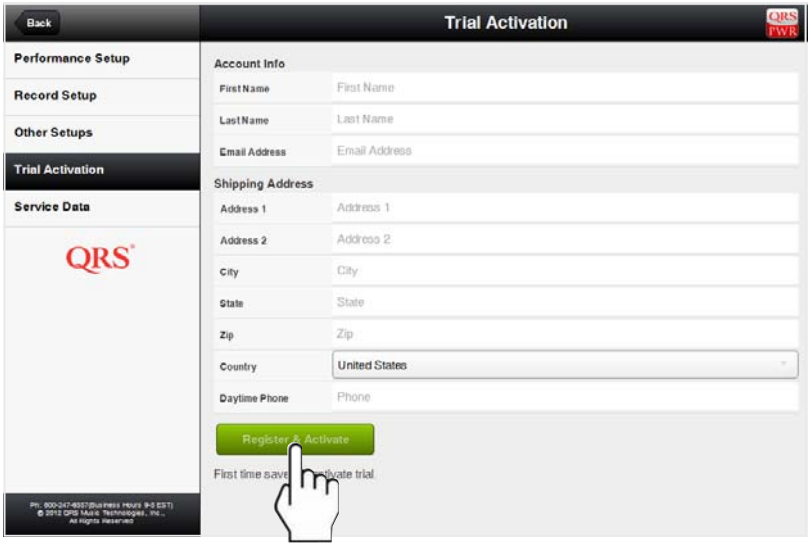


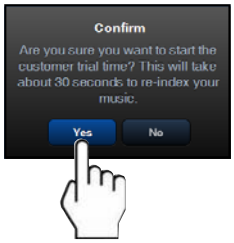
Playback Settings

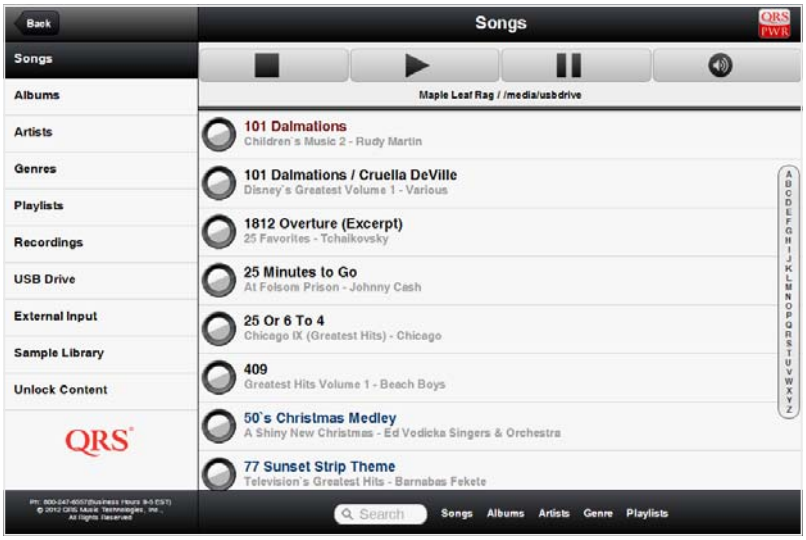
To adjust volume levels, press the "Speaker" icon to open the "Playback Settings" page.

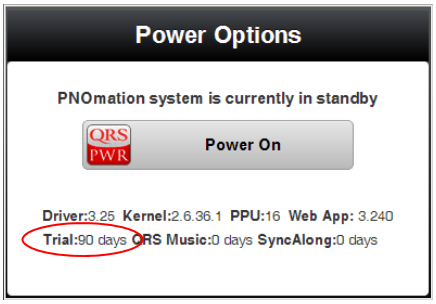


Trial Activation
Complete the Trial Activation form and click the “Register & Activate” button to view the sample library

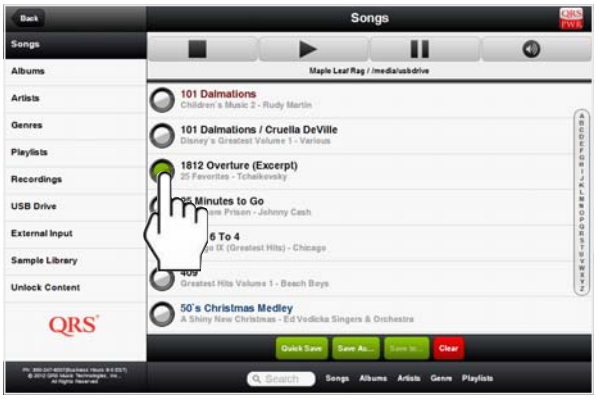



Confirm
Are you sure you want to start the customer trial time? This will take about 30 seconds to re-index your music.
Yes
No

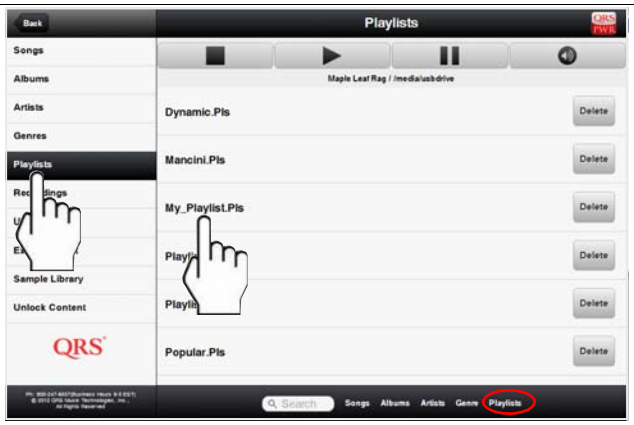



Power Options
PNOmation system is currently in standby
Power On
Driver:3.25 Kernel:2.6.36.1 PPU:16 Web App: 3.240
Trial:90 days QRS Music:0 days SyncAlong:0 days

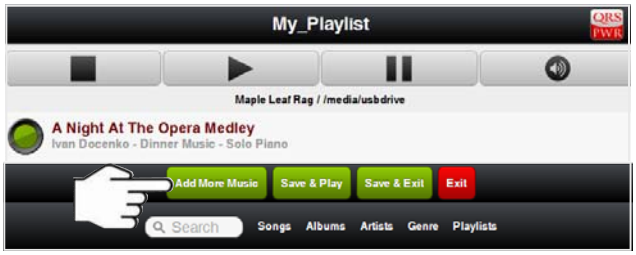
Playlists	
Create a Playlist	
To create a playlist just touch the black box next to the song title. *A check-mark will be added.*	
You may continue to select songs for the playlist or...	
1	Press "Quick Save" to save you current selections with the default name (Playlist_#.Pls).
2	Press "Save As..." to save your playlist with the name you choose.
3	Press "Save To..." to save the song to an existing playlist.
4	Press the "Clear" button, before saving, to uncheck all of your current selections.



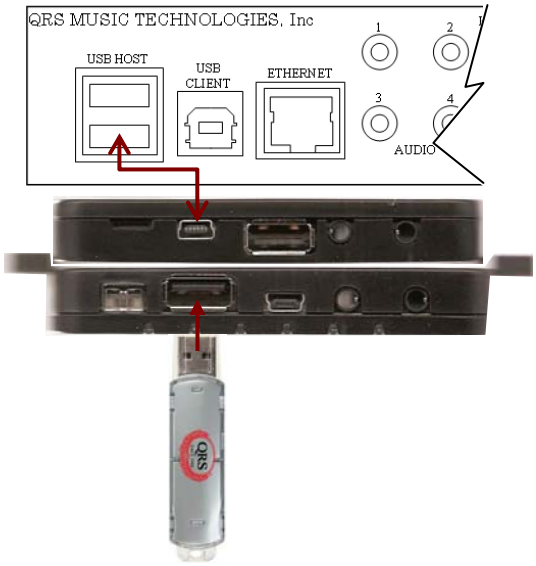
Play songs from a Playlist
Press "Playlist" in the left or at the bottom of the page.
Open a playlist by touching the playlist name.

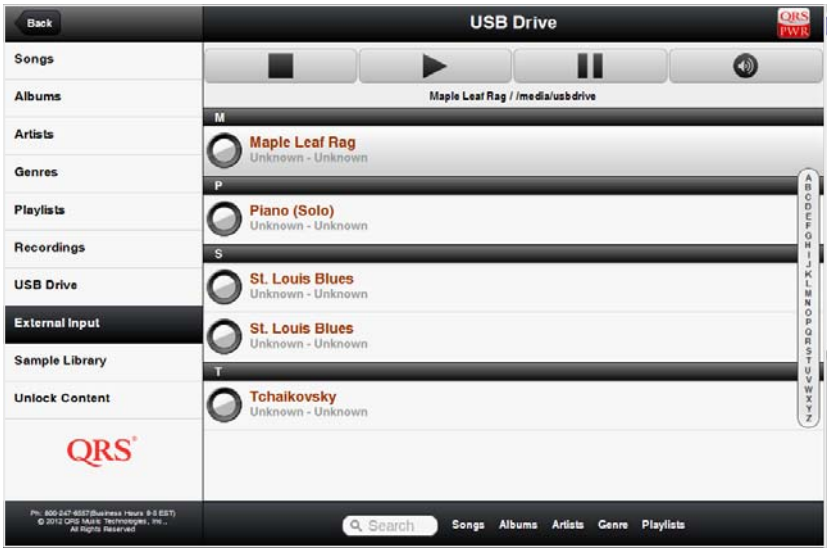


Your playlist will open where you can...
Play a song from the list.
Add more songs to your playlist by clicking the "Add More Music" button.

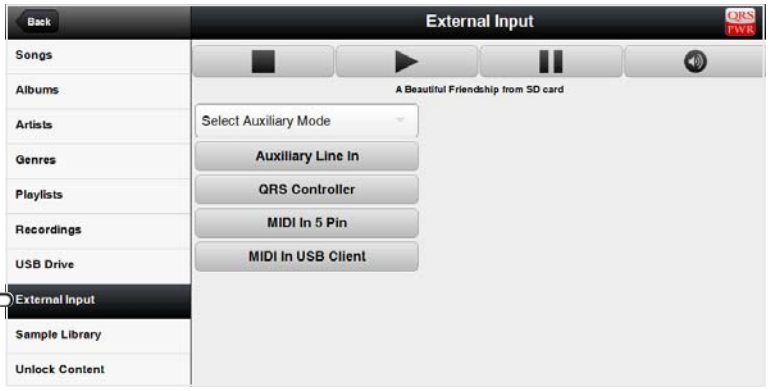


USB Drive
Play MIDI or MP3 files from a USB Drive.
When a USB drive, with MIDI or MP3, is plugged into the USB port the source will change to USB Drive.

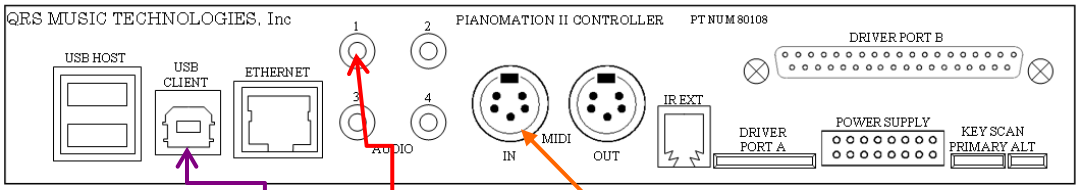


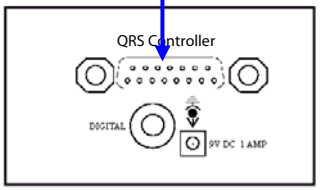


External Inputs
Press External Input to play from one of the four external source options.
AUX Line In: Connect your MP3 or CD player to the Audio jack #1.
QRS Controller: Connect your Ancho or Petine to the "QRS Controller" socket on the PMII chassis.
MIDI In 5-Pin: Connect your MIDI device to the MIDI In port of PMII.
MIDI In USB Client: Connect your Computer with MIDI software to the USB Client port of PMII.



QRS Controllers:
Petine
Ancho
Chili
Serenade Pro





MIDI In 5-Pin [Connect to MIDI device]

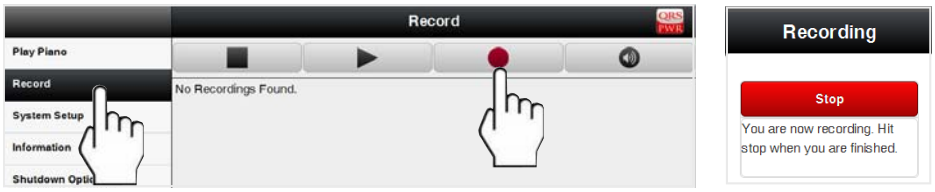
AUX In [Connect to external CD or MP3 player]

MIDI In USB Client [Connect to computer]

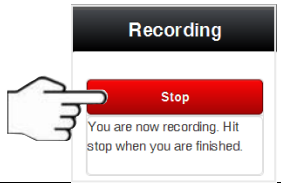
Record a Song

Press the Record option.
Press the red Record button.

Begin playing the piano when the "Recording" box appears.

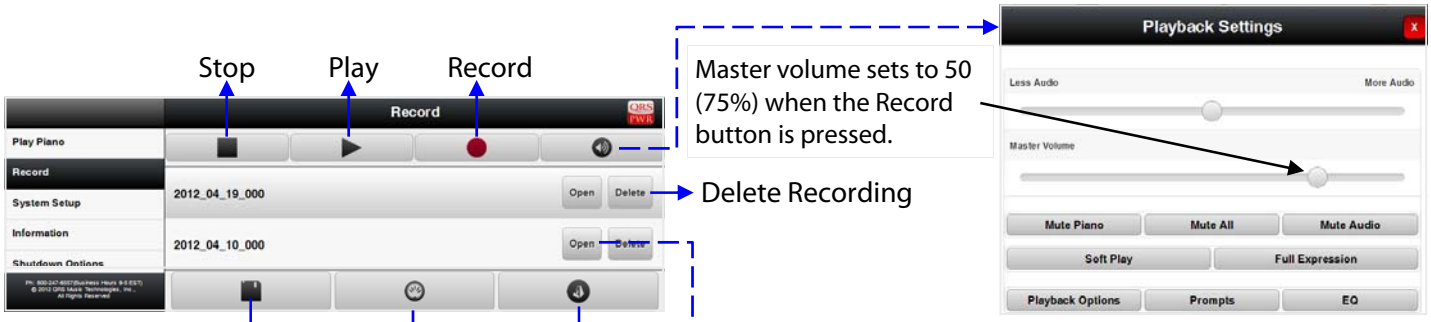


Press the "Stop" button when you are finished recording.

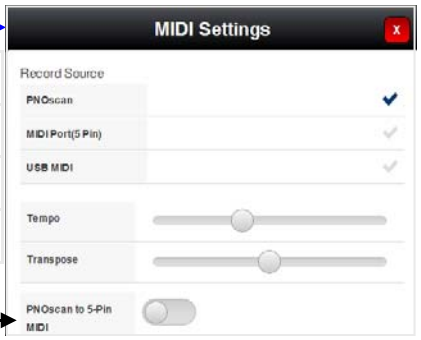


A new song will appear in the Record window.
Press the newly created file to play.

Record Settings



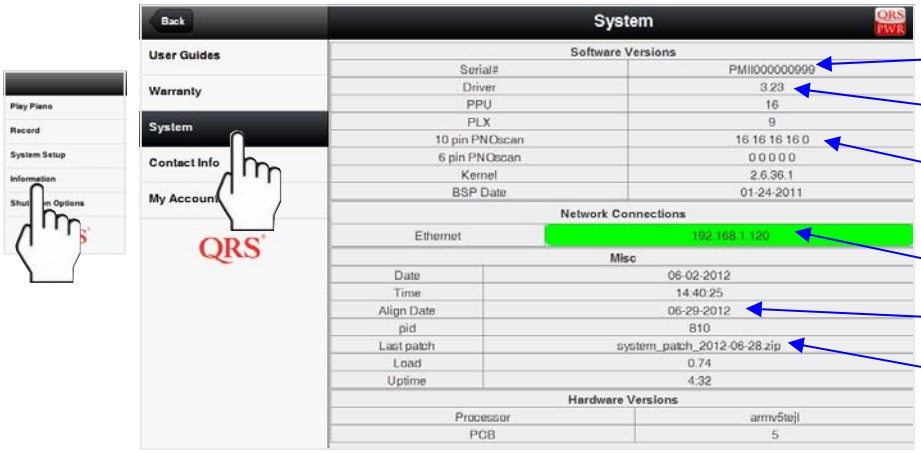
Metronome
Tempo (Beats Per Minute)
120
Measures to Count In (Set to 0 for no count in)
0
Event Trigger
Metronome Enable
With the "Event Trigger" ON, recording begins when the first key is pressed.



Record Source - Select which port you are recording from:	
PNOscan	The QRS PNOscan sensor strip under the piano keys.
MIDI Port	A MIDI device connected to the 5-Pin MIDI IN port.
USB MIDI	A computer w/software connected to the USB Client port.

Turn OFF to keep PNOscan key information from exiting the 5-Pin MIDI OUT socket. Eliminates "Looping".

System Information



PMII Serial Number

Driver (Operating System) Version

10 pin PNOscan:
Numbers above zero indicate the record sensor strip is attached

IP Address

Last Key Adjust (Align) Date

Last Patch: Date that the system Driver was updated.

Update the Operating System

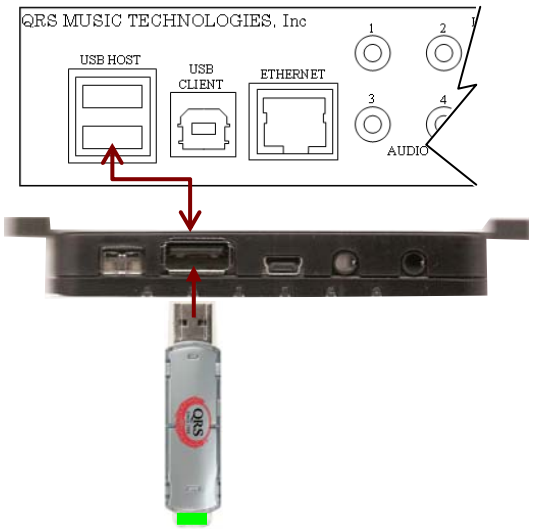
Go to Information / System for the current "Driver" version.
See above.

To update your PMII Operating System (Driver):

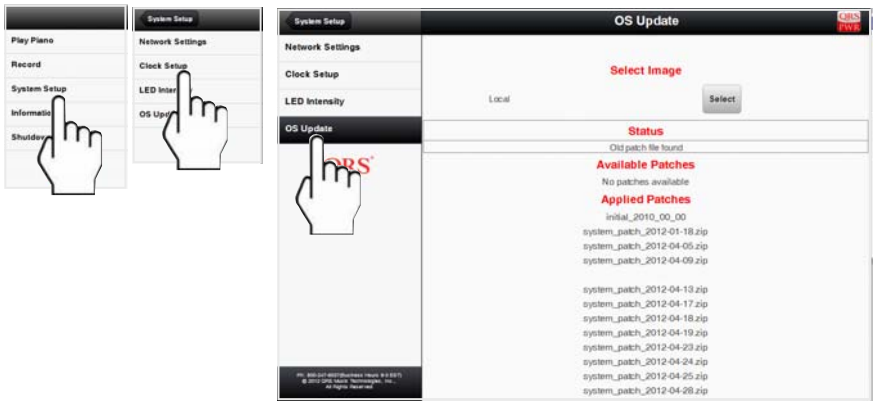
Go to the QRS website to find latest version.
http://www.qrsmusic.com/support_pmii.asp
Download the latest "system_patch_2011-xx-xx.zip from the QRS website.

Copy the zipped folder "system_patch_2011-xx-xx.zip" to a USB memory stick.

Plug the USB memory stick in the USB port on the PLx box.

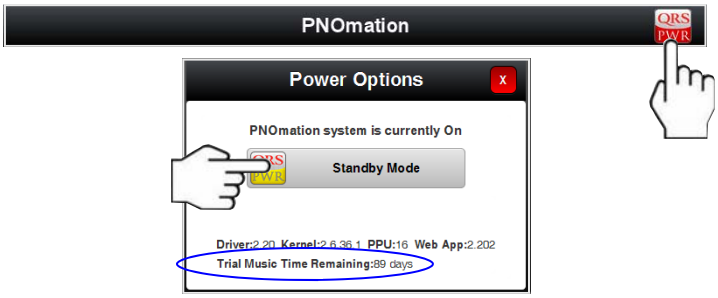


Go to the OS Update page to view the progress.



The update procedure is automatic.
Old Patch File Found
Copy Patch File from USB Drive
Unzip
Execute
Your system will reboot when the update is complete.

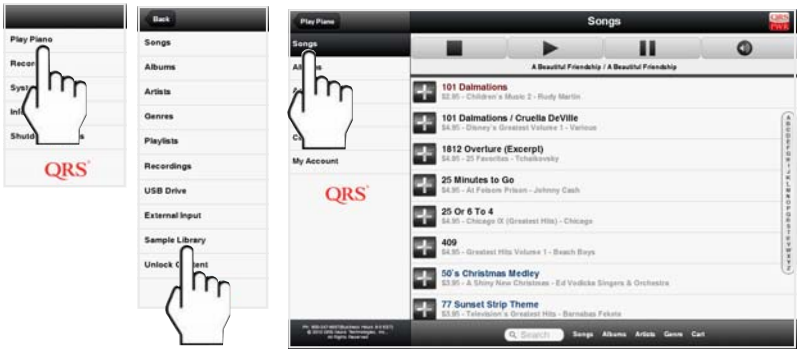
Standby
When you're finished playing the piano press the QRS PWR icon in the upper right corner.
Then, when the Power Options window appears press the "Standby Mode" button. Standby mode shuts off power to the key solenoids but keeps the processor running.
Note the Trial Music Time Remaining



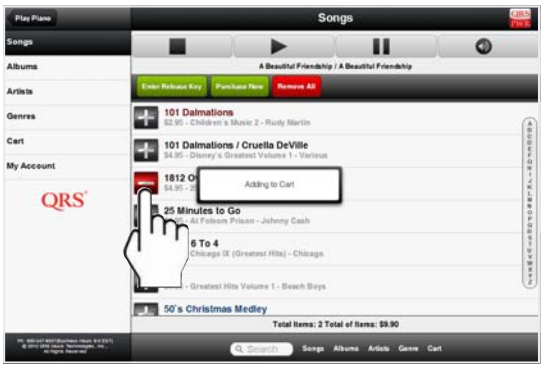
Shutdown Options
You can also enter standby mode by pressing the "Shutdown Options" button.
There are two other options from this window:
"Standby" - Shuts off power to the key solenoids but keeps the processor running.
"Reboot" - Restarts the system in case the unit does not respond to commands.
"Shutdown" - Shuts OFF the system for a move or when the unit won't be used for a while. To restart from this mode the unit must be disconnected and then reconnected the AC power.

Purchase Music From The Sample Library

When your 90-Day Trial period has expired go to the Sample Library section to purchase more music:



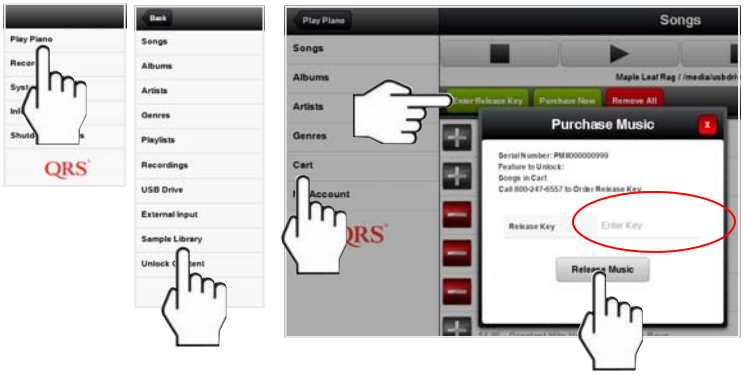
Click on the box next to the song title that you want to purchase to add it to the cart.



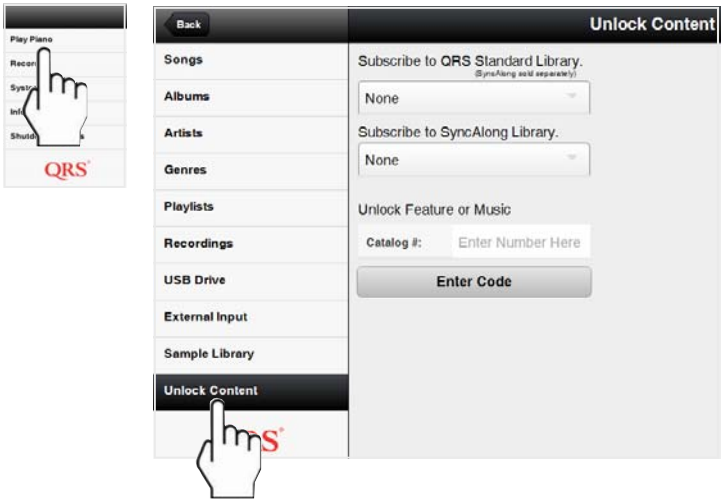
Cart

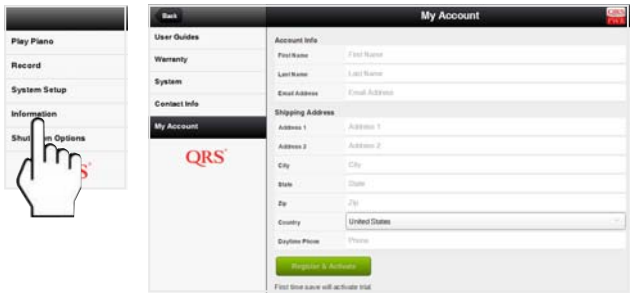
Go to the Cart and click on "Purchase Now" to view the QRS Item numbers.
Write down the Serial and Catalog-Track Numbers and call QRS Music to place your order.

After your purchase enter the Release Key here.

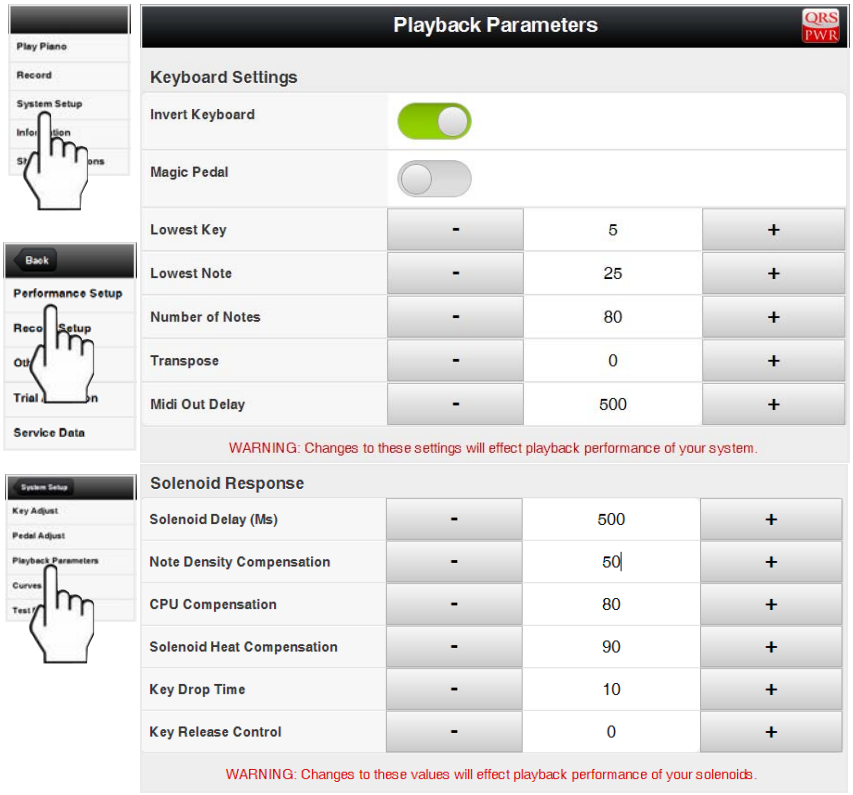


Unlock Content
Unlocks QRS Music Packages and Special Features.



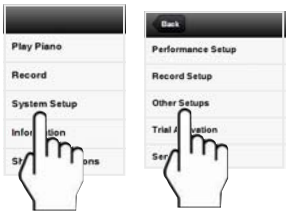
Information
User Guides
Warranty
Contact Info
My Account 

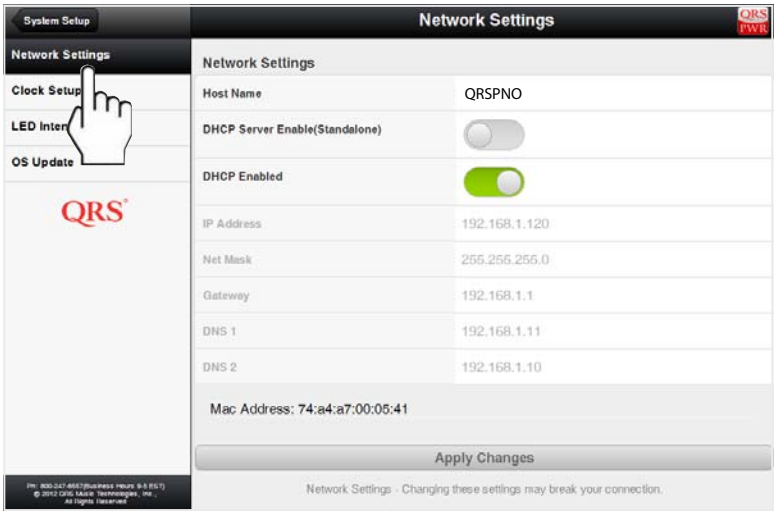
Playback Parameters



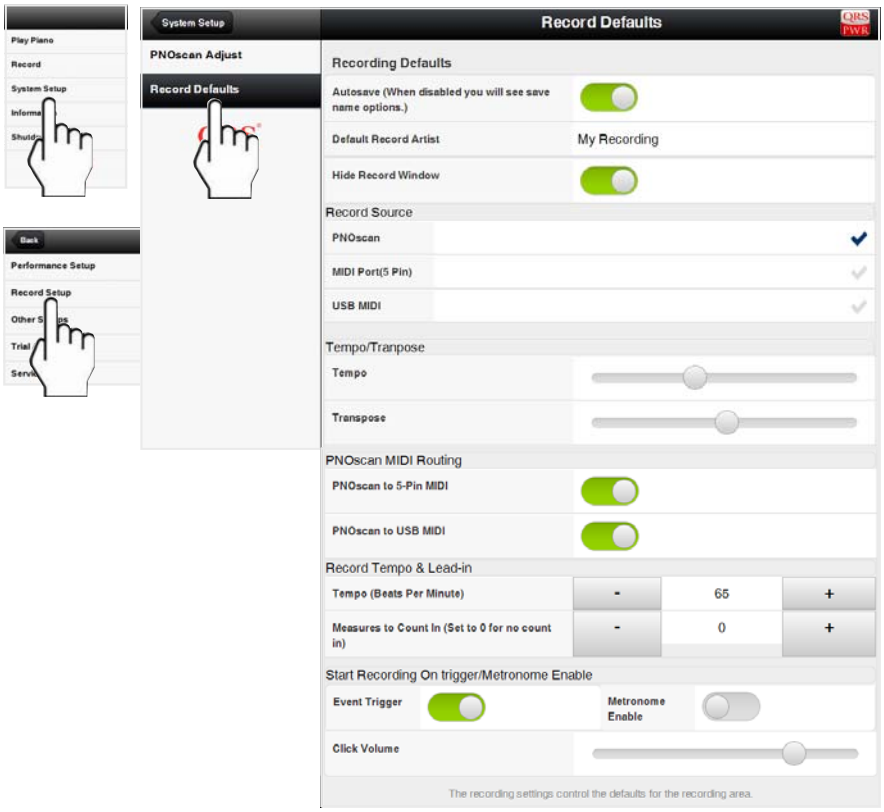
Invert Keyboard: *Shown "ON"* Reverses the direction of play, usually on, as shown, for upright pianos.
Magic Pedal: *Shown "OFF"* System automatically detects the presence of the Sustain Pedal Solenoid.
Lowest Key: Set to 5 for 80 note systems and 1 for 88 note installations.
Lowest Note: Refers to MIDI. Set to 25 for 80 note installations.
Transpose: Set to 0.
MIDI Out Delay: Sets the piano delay of the 5-Pin MIDI Out socket. Default = 500.
Solenoid Delay (Ms): Sets the piano delay to the driver boards. Default = 500.
All other settings are reserved for QRS system set-up and should not be changed by user.

Network Settings
PNOmation II systems are shipped from the factory in "Stand-Alone" mode with the IP address set to 192.168.1.1 and a host name of QRSPNO. The Wi-Fi device supplied by QRS and connected to PMII is set as an access point. *See "How to...Setup the ASUS Wireless for PMII in Stand-Alone Mode".*
You may want to connect PMII to your local network. This will allow you to control PMII from any PC on your network using Google Chrome. You can either connect a cable from PMII to your network or use the Wi-Fi device supplied with your player system for a wireless connection to your network.
To use PMII with your local area network you must:
1 Set-up PMII in Network mode by sliding the "DHCP Server Enabled (Standalone)" button to the left, as shown below. *You can also use a QRS remote to make this change.*
Connect an Ethernet cable from PMII to you network.
2 Or...Reset the Wi-Fi device to communicate with your wireless network. *See "How to...Setup the ASUS Wireless for PMII in Network Mode".*
Once in Network Mode you can set a static IP address by sliding the "DHCP Enabled" button to the left and manually entering the static IP Address.



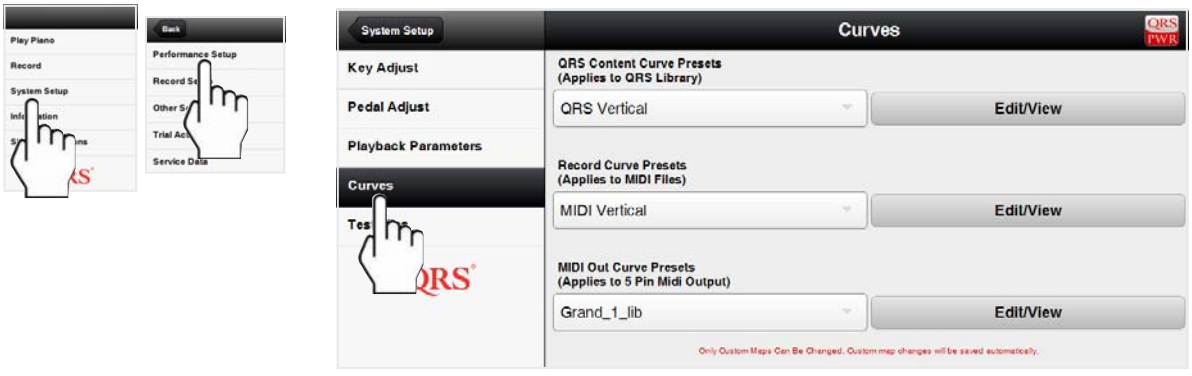


Record Defaults



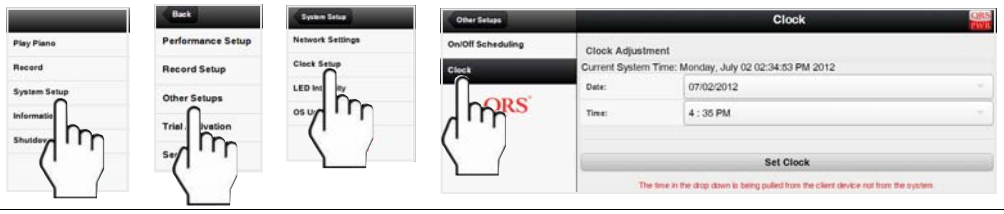
Autosave:
Default Record Artist:
Hide Record Window
Source/PNOscan:
Source/MIDI Port(5-Pin):
Source/USB MIDI:
Tempo
Transpose
Routing/PNOscan to 5-Pin MIDI:
Routing/PNOscan to USB MIDI:
Tempo/Beats Per Minute:
Lead-In Measures:
Event Trigger
Metronome Enable
Click Volume

Curves

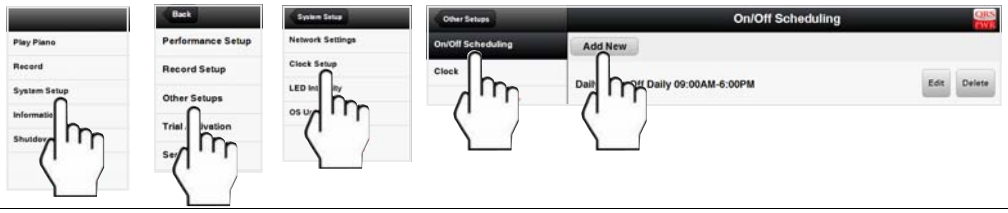


Other Setups

Set the Clock



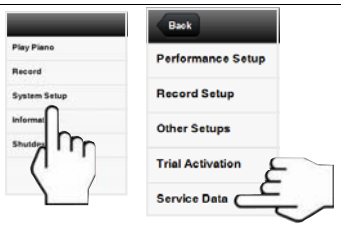
On/Off Scheduling



LED Intensity: Controls the intensity of the lights in the Pin-Light Extension (PLx) box.

Service Data

The service Data pages used by technicians for troubleshooting.



PMII Light Patterns		
1	1 Blink / 10 sec	Idle
1	Blinks	Blinks with PNOscan data
2	1 Blink / 10 sec	Idle
3	1 Blink / sec	Network Mode = Network with Connection
3	Solid	Network Mode = Stand Alone with Connection
3	Off	Network Mode = No Connection

Pin-Light Extension [PLx] Light Patterns		
Power *HI power LED*	Green	Steady: HI power LED is ON Winking: Data to Driver Boards - *Piano should be playing*
	Yellow	STANDBY: CPU=ON, Hi Voltage=OFF waiting for ON command
	Red	Steady: Key or Pedal Solenoid over-current. Hi Volt shut down
System *LO power LED*	Green	Steady: LO power LED is ON, PLx has been initialized.
	Yellow	Blinks with Remote Control Activity
Network	Green	Steady: Stand-Alone Mode for Access Point connection With flashing Red: Stand-Alone link is down
	Yellow	Steady: Network Mode
	Red	Changing Music Sources
Mode (Music Source)		
SD Card Library	Green	Steady
USB Drive		Steady
Record		2 Blinks
Demo		Blinking
External: Auxiliary Line In	Yellow	1 Blink
External: QRS Controller		Steady
External: MIDI IN 5-Pin		3 Blinks
External: MIDI IN USB Client		2 Blinks
MIDI MIDI Traffic to Solenoids	Green	Steady: 10-pin PNOscan Winking: MIDI traffic from record system
	Red	Winking: 5-pin MIDI traffic
AMI IN	Green	Steady: Decoding MIDI Data
	Yellow	Steady Carrier Present Winking: Audio pass-thru [Including Voice Prompts]

Pin-Light Extension [PLx] Button Functions	
Play / Pause	Press to play selected song. Press again to stop playback.
Standby	Press and Hold for 8 seconds and then release.
Reboot	Press and hold for 15 seconds.

Front Button:
Play/Pause/Standby/Reset

QRS Remote Control Features

SD	Music Source
Demo	Future Option
PWR	Power ON/OFF
USB	Music Source
MIDI IN	Music Source
P LIST	Future Option
AUD UP / DN	Audio Volume - Offset
MSTR UP / DN	Master Volume - Adjusts Piano and Audio Levels
PNO UP / DN	Piano Volume - Offset
Numbers 0-9	
ENTER	Future Option
◄◄	Previous Song
►	Play Music
►►	Next Song
■	Stop Music
II	Pause Music
REC	Record a Song

SHIFT	Press "SHIFT" and a button below.
RADIO	Future Option
TEST	Test Music Files
D OFF	Future Option
SPDIF	Future Option
AUX	Play Music from an External Source Connected to Audio Port #1
ALIGN	Key Calibration
SET	Future Option
A	Future Option
DYN	Future Option
MUTE AUD	Mute Audio
B	Future Option
MUTE PNO	Mute Piano
ADD	Future Option
COPY	Future Option
INFO	Current IP Address
STAT	Future Option
PSET	Future Option
RESET	Future Option
FUNC	Use with SHIFT and Number Buttons to access Special Features
PGM	Future Option
RAND	Future Option
VOICE	Future Option
PRAC	Future Option

Setup TRENDnet Wireless for PMII in Stand Alone Mode

The TRENDnet does NOT support Network Mode

If you wish to set up PMII in Network Mode please call the number at the bottom of the page and we will replace the TRENDnet with an ASUS wireless unit.

Flip the switch on the back of the TRENDnet to AP

Log In to the TRENDnet TEW-654TR Wireless Router

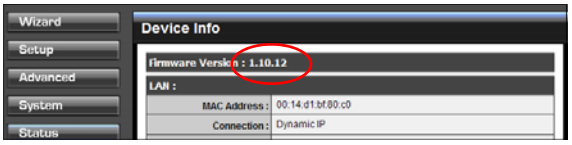
192.168.10.1

User Name = admin

Password = admin

Verify that the Firmware Version is 1.10.12

If the version is not 1.10.12 or higher call QRS Technical Support



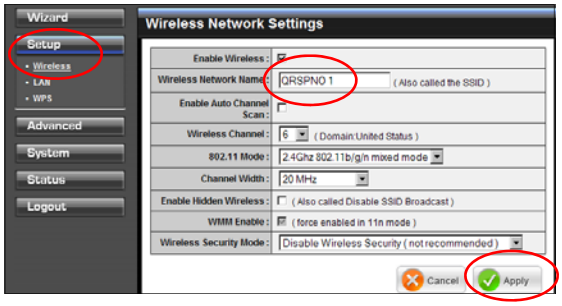
Select: **Setup** / **Wireless**

Change the Wireless Network Name to **QRSPNO #**

This is the name that will appear when you view the available wireless networks. It can be any name that you wish.

Click the "Apply" button and wait...

Click the "Back" button when the data is successfully saved..

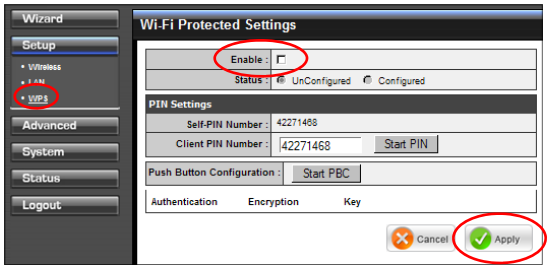

Wizard
Setup
• Wireless
• LAN
• WPS
Advanced
System
Status
Logout
Wireless Network Settings
Enable Wireless :
Wireless Network Name : QRSPNO 1 (Also called the SSID)
Enable Auto Channel Scan :
Wireless Channel : 6 (Domain:United Status)
802.11 Mode : 2.4Ghz 802.11b/g/n mixed mode
Channel Width : 20 MHz
Enable Hidden Wireless : (Also called Disable SSID Broadcast)
WMM Enable : (force enabled in 11n mode)
Wireless Security Mode : Disable Wireless Security (not recommended)
Cancel
Apply

Select: **Setup** / **WPS** *"Wi-Fi Protection Settings"*

Click to **uncheck** "Enable to disable the protection

Click the "Apply" button and wait...

Click the "Back" button to save settings.



Select: **Setup** / **LAN**

Select "**Static IP**" in the "My LAN Connection is: drop-down box.

Change the Device Name to **QRSPNOAP**

Change the IP Address to **192.168.1.220**

Change the Gateway to **192.168.1.1**

Change the Primary DNS to **192.168.1.1**

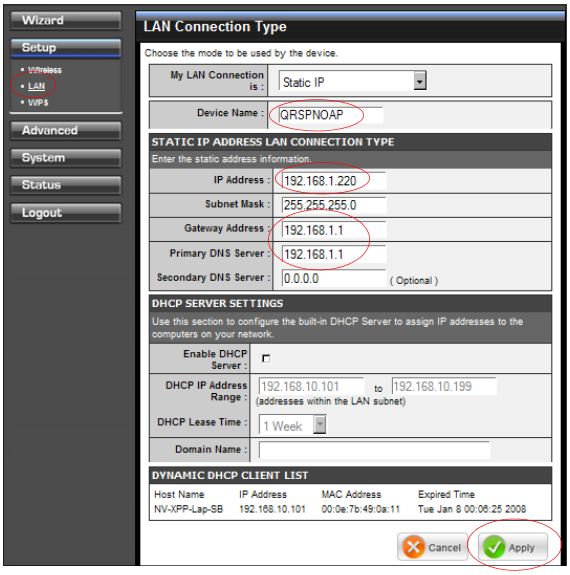
Click the "Apply" button and wait...

Click the "Back" button to save settings.

This will disconnect you from the Wi-Fi device.

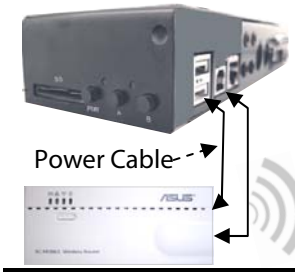
Use 192.168.1.220 if you need to log in to the TRENDnet setup again.

Reconnect the TrendNet to PMII
You can now log on to PMII 192.168.1.1


Wizard
Setup
• Wireless
• LAN
• WPS
Advanced
System
Status
Logout
LAN Connection Type
Choose the mode to be used by the device.
My LAN Connection is : Static IP
Device Name : QRSPNOAP
STATIC IP ADDRESS LAN CONNECTION TYPE
Enter the static address information.
IP Address : 192.168.1.220
Subnet Mask : 255.255.255.0
Gateway Address : 192.168.1.1
Primary DNS Server : 192.168.1.1
Secondary DNS Server : 0.0.0.0 (Optional)
DHCP SERVER SETTINGS
Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.
Enable DHCP Server :
DHCP IP Address Range : 192.168.10.101 to 192.168.10.199 (addresses within the LAN subnet)
DHCP Lease Time : 1 Week
Domain Name :
DYNAMIC DHCP CLIENT LIST
Host Name IP Address MAC Address Expired Time
NV-XPP-Lap-SB 192.168.10.101 00:0e:7b:49:0a:11 Tue Jan 8 00:06:25 2008
Cancel
Apply

Setup the ASUS WL 330N3G Wireless for PMII in Stand-Alone Mode

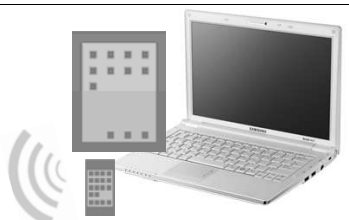
PNOmation II



Power Cable

ASUS 330N3G Wireless
set as an Access Point (AP)

Default Configuration Set by QRS



Wireless Computer
or
Android Device
or
Apple iPad/iTouch

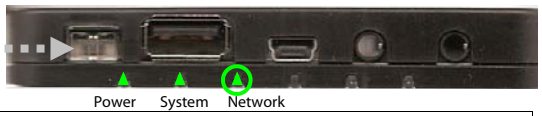
No access from home Network
IP Address 192.168.1.1is assigned by PMII

All systems are shipped in Stand-Alone mode: [1] The PLx Network light is green and [2] you should see "QRSPNO ####" when viewing your local Wi-Fi devices . These instructions are used to reset the PMII and the ASUS wireless to the default configuration.

If the PLx "Power" light is green and the speakers are on, you should hear voice prompts when remote control commands are received.
If the "Power" light is yellow, tap the PLx button once so that the light turns green.
Point the remote at the button on the PLx box. The "System" light will flash, w/ voice prompts, when remote commands are received.
Using a QRS Remote: Press FUNC then PGM then 9 9 0. *FUNC 990 on PMII Versions 3.00 and higher.*
If you have one of the smaller QRS remotes: press F1Source then Program then 990.

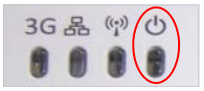
PLx

The PLx Network light should now be green.



Confirm that the ASUS' "power" light is ON.

Press and Hold the "Restore' button, *on the back of the ASUS*, until the "power" light flashes at least 3 times.



DISCONNECT the Ethernet cable from you PC or Laptop computer.

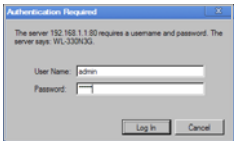
View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer.
If the ASUS was "restored" correctly you should see "ASUS" in your available Wi-Fi devices list.
Select "ASUS" from the list and wait until a connection is established.

Apple devices may automatically open the Authentication screen when connection.
Enter admin in the User Name and Password fields.

Apple

If you are using an Android or a Computer and Google Chrome:
In your web browser, enter **192.168.1.1** in the URL address window.
Enter admin in the User Name and Password fields.
Click the Log In button.

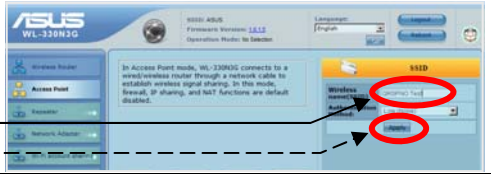
Google Chrome



Android

The ASUS programming window opens.
Select Access Point.

Enter the SSID name that you want to see when you view connections.
Our example uses QRSPNO Test
Click the APPLY button.



The ASUS will apply, save and restart with the new settings.

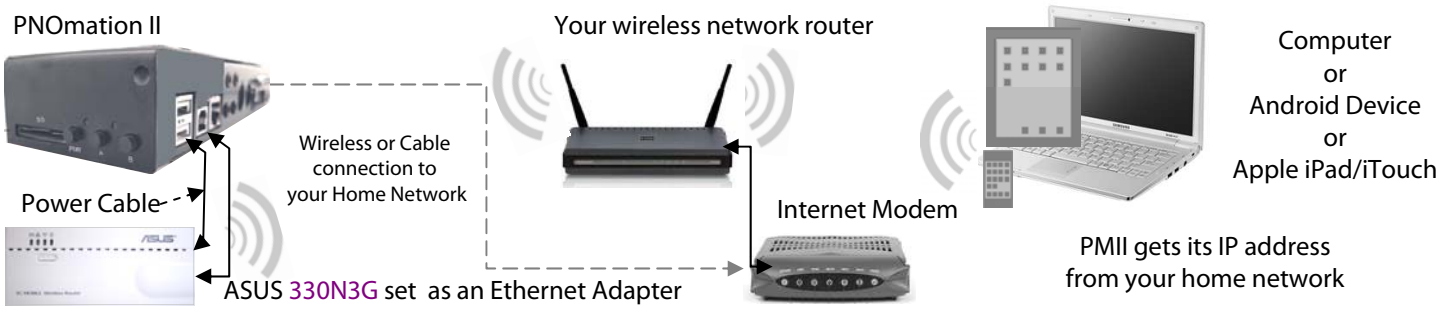
Close the browser window when 100% complete.

Wait for the voice prompt to report: "Standby"..."Connected"..."IP Address is...192.168.1.1". [FUNC INFO to hear voice prompts]

You can now wirelessly connect to PNOmation II via the ASUS wireless access point..

Enter [192.168.1.1/qrs] in your Internet web browser.

Setup ASUS WL 330N3G Wireless for PMII in Network Mode



If the PLx "Power" light is green and the speakers are on, you should hear voice prompts when remote control commands are received.
If the "Power" light is yellow, tap the PLx button once so that the light turns green.
Point the remote at the button on the PLx box. The "System" light will flash, w/ voice prompts, when remote commands are received.
Using a QRS Remote: Press FUNC then PGM then 9 9 1. (FUNC 991 on PMII Versions 3.00 and higher)
[*If you have one of the smaller QRS remotes: press F1Source then Program then 991*]

The PLx Network light should now be yellow.

Confirm that the ASUS' "power" light is ON.

Press and Hold the "Restore' button, *on the back of the ASUS*, until the "power" light flashes at least 3 times.

DISCONNECT the Ethernet cable from you PC or Laptop computer.

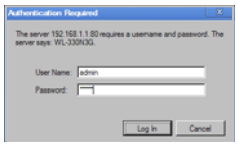
View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer.
Select "ASUS" from the list and wait until a connection is established.

Apple devices may automatically open the Authentication screen when connection.
Enter admin in the User Name and Password fields.

Apple

If you are using an Android or a Computer and Google Chrome:
In your web browser, enter 192.168.1.1 in the URL address window.
Enter admin in the User Name and Password fields.
Click Log In (Apple) or click the OK (Android/Chrome) button.

Google Chrome



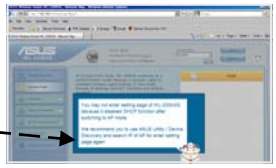
Android

The ASUS programming window opens.
Select Network Adapter.

Select your local wireless Network device from the Site Survey list.
Close the Help screen if it appears over the Site Survey list.
Click the Connect button.

The ASUS will connect, save and restart with the new settings.

Close the browser window when 100% complete.



Wait for the voice prompt to report: "Network"..."Connected"..."IP Address is...192.168.1.xxx". [FUNC INFO to hear voice prompts]

You can now connect to PNOmation II through your home Network.

Enter [192.168.1.xxx] in your Internet web browser.

Setup the ASUS WL 330gE Wireless for PMII in Stand-Alone Mode

PNOmation II

ASUS 330gE Wireless
set as Access Point (AP)

Default Configuration
Set by QRS

Wireless Computer
or
Android Device
or
Apple iPad/iTouch

No access from home Network
IP Address 192.168.1.1is assigned by PMII

All systems are shipped in Stand-Alone mode: [1] The PLx Network light is green and [2] you should see "QRSPNO ####" when viewing your local Wi-Fi devices . These instructions are used to reset the PMII and the ASUS wireless to the default configuration.

If the PLx "Power" light is green and the speakers are on, you should hear voice prompts when remote control commands are received.
If the "Power" light is yellow, tap the PLx button once so that the light turns green.
Point the remote at the button on the PLx box. The "System" light will flash, w/ voice prompts, when remote commands are received.
Using a QRS Remote: Press FUNC then PGM then 9 9 0. (FUNC 990 on PMII Versions 3.00 and higher)
[*If you have one of the smaller QRS remotes: press F1Source then Program then 990*]

The PLx Network light should now be green.

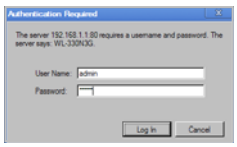
PLx

DISCONNECT the Ethernet cable from you PC or Laptop computer.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer.
If the ASUS was "reset" correctly you should see "ASUS" in your available Wi-Fi devices list.
Select "ASUS" from the list and wait until a connection is established.

Open Apple Safari, Android Web Browser or Google Chrome on a Computer:
In your web browser, enter **192.168.1.220** in the URL address window.
The "Authentication Required" dialog box will appear.
Enter admin in the User Name and Password fields.
Click Log In.

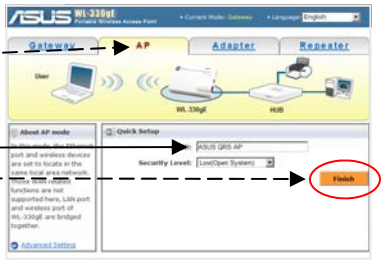
Apple



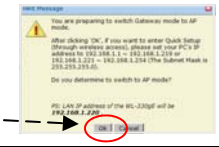
Google Chrome

Android

The ASUS programming window opens.
Select the AP Tab
Enter the SSID name that you want to see when you view your wireless devices.
Our example uses ASUSQRS AP
Click the FINISHED button.



This yellow message box will appear.
Click OK



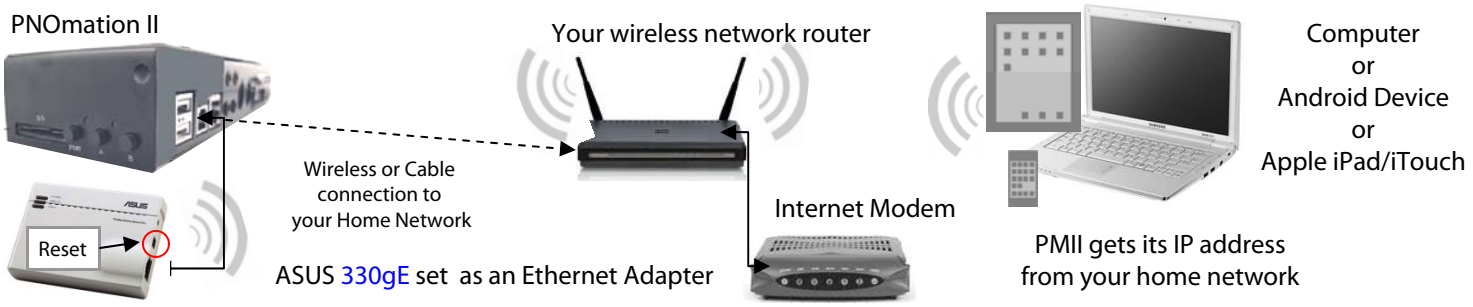
The ASUS will save and restart with the new settings
Wait for the progress to complete, 100%.
At this point you will loose connection to the ASUS...
Close the browser window when the progress is 100% complete.

Wait for the voice prompt to report: "Standby"..."Connected"..."IP Address is 192.168.1.1". [FUNC INFO to hear voice prompts]

You can now wirelessly connect to PNOmation II via the ASUS wireless access point..

Enter QRSPNO [192.168.1.1/qrs] in your Internet web browser.

Setup ASUS WL 330gE Wireless for PMII in Network Mode



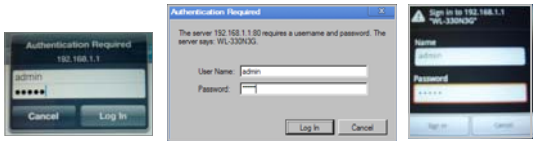
If the PLx "Power" light is green and the speakers are on, you should hear voice prompts when remote control commands are received.
If the "Power" light is yellow, tap the PLx button once so that the light turns green.
Point the remote at the button on the PLx box. The "System" light will flash, w/ voice prompts, when remote commands are received.
Using a QRS Remote: Press FUNC then PGM then 9 9 1. (FUNC 991 on PMII Versions 3.00 and higher)
[*If you have one of the smaller QRS remotes: press F1Source then Program then 991*]

The PLx Network light should now be yellow.

DISCONNECT the Ethernet cable from you PC or Laptop computer.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer.
Select "ASUS" from the list and wait until a connection is established.

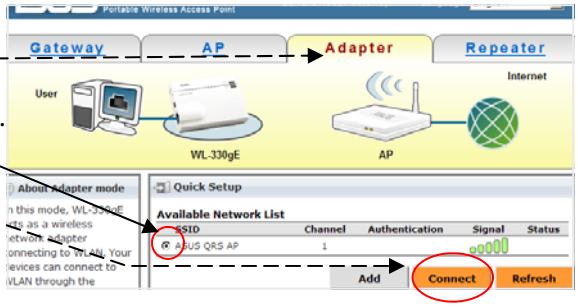
Open Apple Safari, Android Web Browser or Google Chrome on a Computer:
In your web browser, enter **192.168.1.220** in the URL address window.
The "Authentication Required" dialog box will appear.
Enter admin in the User Name and Password fields.
Click Log In.



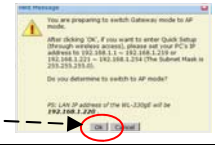
The ASUS programming window opens.
Click on the Adapter tab.

In the Available Network List , click on the radio button for your local network.
Our example shows ASUS QRS AP.

Click the Connect button.
You may need to provide a password to your network.
Use the "Add" button if your local network is hidden.



This yellow message box will appear.
Click OK



The ASUS will save and restart with the new settings
Wait for the Progress to complete.
At this point you will loose connection to the ASUS...
Close the browser window when the progress is 100% complete.

Wait for the voice prompt to report the new IP Address from your network: "Network"..."Connected"..."IP Address 192.168.1.xxx".
[FUNC INFO to hear voice prompts]

You can now connect to PNOmation II through your home Network.

Enter [192.168.1.xxx] in your Internet web browser.

Complimentary Song List [319 Total]

A Beautiful Friendship
A Christmas Love Song
A Curious Story (Kinderscenen, Op 15)
A Holly Jolly Christmas
A Last Dance
A Night At The Opera
About Strange Lands And People (Kinderscenen, Op 15)
Adagio, from Sonata in C, Op 3 No 3 (Beethoven)
Addams Family Theme
Adoro
Afternoon Delight
Against All Odds
Ain't Misbehavin'
All I Do Is Dream Of You
Allegretto, from Haydn Sonata in E
Allegro con brio, from Sonata in C, Op 3 No 3 (Beethoven)
Allegro giusto (from Italian Concerto, BWV 971)
Allegro, from Sonata in C, K545 (Mozart)
Allegro, from Sonata in G, K283
Always (Atlantic Star)
Always On My Mind
Amazing Grace
Andante, from Sonata in C, K545 (Mozart)
Andante, from Sonata in G, K283
Angie
Animaniacs Theme
Annes de Pelerinage – Tarantella (Liszt)
Annie Get Your Gun, part 1
Annie Get Your Gun, part 2
Arabesque No 1 (Debussy)
As Long As He Needs Me
At A Georgia Camp-Meeting
Autumn In New York
Ave Maria (Schubert/Liszt)
Baby Medley
Bacharach Medley
Bad Bad Leroy Brown
Ballade in D Minor, Op 10 No 1
Basin Street Blues
Battle Hymn/How Great Thou Art
Beautiful Dreamer
Benny Goodman Medley
Blessed Assurance
Blue Skies
Blues For Big Scotia
Border Song
Bringing In The Sheaves
Brother Can You Spare A Dime
Burton Lane Medley
Candle Blessings
Captain Jack
Carolina In The Morning
Carousel
Chances Are
Change The World
Chanukah O Chanukah
Chemin de Fer (rag)
Chopsticks
Clair de Lune, Op 46 No 2 (Faure)
Contretanze
Could I Have This Dance
Crazy
Dancing In The Dark
Danny Boy
Danse (Debussy)
Days of Wine and Roses
Deed I Do
Deep In The Heart Of Texas
Do That To Me One More Time
Don't It Make My Brown Eyes Blue
Don't Take Your Love From Me
Down By The Riverside
Down Yonder
Dream
Dreamsville
Duelling Banjos
Eighteenth Street Strut
El Dia Que Me Quieras
El Pelele (Goyescas) (Granados)
Enticellas
Etude in C-sharp minor, Op 10 (Chopin)
Etude in E, Op 10 No 3
Etude in G-flat, Op 10 No 5
Etude in G-sharp Minor, Op 25 No 6
Etude, Op 2 No 1 (Scriabin)
Etude, Op 3 No 5 (Scriabin)
Everything I Have Is Yours
Exactly Like You
Exodus
Fantasie in B minor, Op 28 (Scriabin)
Fine And Dandy
Finian's Rainbow
First Kiss
Five Foot Two, Eyes Of Blue
For The Good Times
Forty-Second Street
Forty-Second Street, part 1
Forty-Second Street, part 4
Frosty the Snowman
Georgia On My Mind
Get Happy
Ghostbusters Theme
Glenn Miller Medley
God Bless America/America The Beautiful
God Rest Ye Merry Gentlemen
Gone With The Wind
Good King Wenceslas
Good-bye Yellow Brick Road
Gypsy, part 1
Gypsy, part 2
Hard-Hearted Hannah
Hark! The Herald Angels Sing
He Hideth My Soul
High Noon
Holberg Suite: Preludium
Holberg Suite: Sarabande
Honeysuckle Rose
Honky Cat
How About You
Hungarian Rhapsody No 2 (Liszt)
Hungarian Rhapsody No. 12 (Liszt)
I Don't Need You
I Don't Stand A Ghost Of A Chance
I Don't Want To Walk Without You
I Just Called To Say I Love You
I Love My Wife
I Love Paris
I Married An Angel
I Only Have Eyes For You
I Saw Three Ships
I Want To Be Happy
I'll Be Around
I'll Close My Eyes/Close Your Eyes
I'm Old-Fashioned
I'm Through With Love
I've Got A Crush On You/I've Got It Bad
If Ever I Would Leave You
If I Could Be With You
If You Believe
Impromptu in G-flat, Op 90 No 3 (Schubert)
In Dulci Jubilo
In The Mood
Intermezzo in A, Op 118 No 2
Irlandaise
Irving Berlin Medley
Isn't It Romantic
It Came Upon A Midnight Clear
It Might As Well Be Spring
It Was A Very Good Year
It's A Grand Night For Singing
It's De-lovely
It's Impossible
It's Not For Me To Say
It's Too Late
Ivor Novello Medley
Jeepers Creepers
Jesus, Jesus Rest Your Head
Jesus, The Very Thought Of You
Jolly Old St. Nicholas

Complimentary Song List

Killing Me Softly With His Song
Killing Me Softly With His Song
La Cage Aux Folles
Lazy Bones
Le Chemin de Fer (Alkan)
Leola
Les Miserables
Liebesleid (Kreisler/Rachmaninov)
Liebestraum No. 3 (Liszt)
Linus & Lucy
Lookin' For Love
Love And Marriage
Love Letters
Love Makes The World Go Round
Love Walked In
MacNamara's Band
Manhattan
Masquerade
Mazurka, Op 6 No 3
Medley No. 1
Memories Of You
Memories of You/As Time Goes By
Minuet (Boccherini)
Minuet in G, Op 17 No 2 (Moszkowski)
Moderato, from Haydn Sonata in E
Moondance
Moonglow
Moonlight and Roses
Moonlight Cocktail
Moonlight In Vermont
Moonlight Serenade
Moonlight Sonata, 1st Mvt. (Beethoven)
More
Morning Has Broken
Morning Sun
Mr. Jelly Lord
Muppet Show Theme
Music, Music, Music
My Christmas Song for You
My Foolish Heart
My Heart Stood Still
New Hampshire Hornpipe
Niteflite
No No Nanette
Nocturne in F (Chopin)
O Christmas Tree
Oh Happy Day
On Golden Pond
On The Street Where You Live
On The Sunny Side of the Street
Only Trust Your Heart
Ooh! Look-a There, Ain't She Pretty
Oops! I Did It Again
Paganini Etude No. 3 (La Campanella)
Paper Moon
Penny Lane
Phantom Fantasy
Pizzicato Polka
Please Be Kind
Polka Medley
Polonaise in A-flat, Op 53 (Chopin)
Polonaise, Op 26 No 1
Prelude No 1 in C (WTC I)
Prelude No 10 in E Minor (Bach/Siloti)
Presto, Concert Piece No. 2 in D Minor (Mendelssohn)
Reverie, Op 3 (Joel)
Romanze from Concerto No 1
Rose of Washington Square
Rosenkavalier Waltzes (R. Strauss)
Ruby
Rudolpho's Narrative (La Boheme)(Puccini)
Sad Songs
Santa Claus Is Coming To Town
Satin Doll/They Can't Take That Away From Me
Sea Songs Medley
Semper Fedelis
Send In The Clowns
Shadow Waltz
Shall We Gather At The River
Since I Fell For You
Six Variations on Nel Cor Piu
Smells Like Teen Spirit
Smoke Smoke Smoke
So Am I
Some Other Time
Something
Somewhere Out There
Sonata No 4 in F-sharp, Op 30 (Scriabin)
Sophisticated Ladies, part 1
Sophisticated Ladies, part 2
Southern Nights
Souvenirs D'Andalousie (Gottschalk)
Spancil Hill
Speak Softly Love
Spinner's Song , Op 67 No 4 (Mendelssohn)
Stars Fell On Alabama
Straight Ahead
Stumbling
Suite, Op 14 No 1 (Bartok)
Suite, Op 14 No 2 (Bartok)
Suite, Op 14 No 3 (Bartok)
Sweet And Low Down
Sweet Rosie O'Grady
Taking A Chance On Love
Tango (Albeniz)
Thank You
Thanks For The Memory
Thanksgiving
That Old Black Magic
That Old Feeling
The Birth Of The Blues
The Entertainer
The Fantasticks
The Folks Who Live On The Hill
The Gift
The Good Life
The Hut Sut Song
The Moth Waltz (Straus/Tausig)
The Nearness of You
The Nearness of You/One Morning In May
The One I Love (Belongs To Somebody Else)
The Phantom of the Opera
The Rose
The Sheik of Araby
The Sound of Music II
The Stranger
The Talk Of The Town
The Tribute
The Trolley Song
The Twist
The Very Thought Of You
The Way It Is
The Way You Look Tonight
The Wizard of Oz
Third Movement - Piano Concerto in E-flat, K 482 (Mozart)
Through The Eyes Of Love (Ice Castles)
To Beat The Band
Tommy Dorsey Medley
True Love
Unforgettable
Up On The Housetop
Valentine
Valse Impromptu in A-flat (Liszt)
Volare
Walkin' After Midnight
Waltz in A-flat, Op 39 No 15 (Brahms)
Waltz No 1 (Joel)
We Three Kings
What Child Is This (Greensleeves)
What The World Needs Now
When My Baby Smiles At Me
Where Everybody Knows Your Name (Cheers)
White Christmas Medley
Who Is It?
Who Wants To Live Forever
Wonderful Words Of Life
You Light Up My Life
Young At Heart
Zing Went The Strings Of My Heart

PNOmation II® UPDATE/UPGRADE PACKAGE
LIMITED WARRANTY

PNOmation II ELECTRONICS LIMITED WARRANTY

QRS Music Technologies, Inc. ("QRS") warrants to you for the Warranty Period that there are no defects in the materials of this Product (as identified at the end of this warranty certificate). The "Warranty Period" expires (except as explained below) Two (2) years from the date of your purchase of the Product. In order to determine the date of your purchase of the Product, you will need to provide to us a credit card receipt, a purchase agreement, a sales slip, a warranty registration or some other form of proof that you are the original purchaser and the date of your purchase of the Product.

If you are not able to provide us with some form of proof of purchase date, the Warranty Period will be a shorter period (the "Shorter Warranty Period") which is two years from the date that your dealer purchased the Product from QRS. If you cannot provide a proof of purchase date, you may contact us in the manner described below and we will assist you in determining the date that your dealer purchased the Product from us and determining the Shorter Warranty Period. This is a warranty for parts only and does not include shipping or labor.

This warranty does not apply to any accessories you may have purchased with the Product and does not apply to any piano or components of the piano with which the Product is used or any Piano in which the Product is installed. In addition, this warranty does not cover scratches, dents or other defects in the cosmetic finish of the Product.

The warranty is issued solely to the original purchaser of the Product. THIS WARRANTY IS NOT TRANSFERABLE. If, during the Warranty Period, parts incorporated in this Product are found to be defective in material or workmanship, and the original purchaser provides Purchase Documents to QRS, then QRS or its authorized dealer will provide replacement parts without charge. We may, at our discretion, provide reconditioned parts or assemblies as warranty replacements. You as the original purchaser will be responsible to pay labor costs incurred in connection with any repair.

LIMITATION IN CONNECTION WITH OBSOLETE PRODUCTS

If at the time you make a claim pursuant to this warranty, we no longer manufacture or sell the same model of Product, we may, at our discretion, rather than repair or replace defective parts in the Product, offer to sell you a more current version of a similar Product. If we offer to sell you a more current model of the Product, you will be responsible to pay the difference between the Manufacture's Suggested Retail Price ("MSRP") of the more current version of a similar Product and the price you paid for the Product you purchased. If you choose not to accept such offer, we will have no further obligations pursuant to this warranty.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, MADE BY THE MANUFACTURER IN CONNECTION WITH THIS PRODUCT. INCLUDING, BUT NOT LIMITED TO, WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ALLOWED BY THE LAW, QRS SHALL NOT BE RESPONSIBLE FOR LOSS OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF THE MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights. Some states provide other rights, and some states do not allow excluding or limiting liability for incidental or consequential damage. Consequently, the limitations and exclusions in this warranty may not apply to you. In addition, some jurisdictions have consumer protection rules, regulations and statutes that may apply to you.

PNOmation II® UPDATE/UPGRADE PACKAGE
LIMITED WARRANTY

Exclusions

There is no express warranty on the Product and this warranty is void if:

1. You did not purchase this Product from an authorized QRS reseller
2. This Product has been serviced, modified or tampered with by anyone other than an QRS Authorized Service Representative
3. The name, trademark or serial number has been modified, defaced or removed from the product,
4. This Product has been damaged as a result of abuse, abnormal force or strain, failure to reasonably maintain and protect, modification, accident or exposure to extreme temperature or humidity,
5. Parts, supplies or other accessories which have not been approved by QRS have been used with this Product,
6. Radio frequency interference is generated by uncertified and/or illegal equipment,
7. This Product has been moved or delivered without reasonable preparation and packaging or
8. QRS reasonably determines, after inspection that there has been modification of this Product which adversely affects the reliability of the product or component.
9. Replacement of the SD card and its contents.

Owner's Responsibility

In order to have rights under this warranty, you have the following responsibilities:

1. Retain your proof of purchase and purchase date and register your product either online at qrsmusic.com or send in your Warranty Registration Card
2. Notify QRS or any authorized dealer of any warranty claim within ten (10) days after discovery and provide a detailed explanation of the problem.

General

If any provision herein shall be unlawful, void or for any reason unenforceable, then that provision shall be deemed severable from this warranty certificate and shall not affect the validity of and enforceability of the remaining provisions.

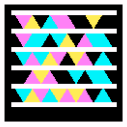
QRS reserves the right to make changes in design and/or improvements to its products without any obligation to retrofit products previously manufactured.

INSTRUCTIONS FOR OBTAINING WARRANTY SERVICE

1. If you cannot provide proof of purchase, contact QRS at 800-247-6557 and we will attempt to determine the date on which your dealer purchased the Product and assist you in determining the Shorter Warranty Period. For warranty service, contact the dealer from whom you purchased the product, or your nearest dealer.
2. If no dealer is near you, contact QRS by phone at 800-247-6557.
3. Do not ship the product without prior written Return Authorization from QRS. Do not attempt to repair or disassemble the product yourself.
4. Please record your model number and serial number and your date of purchase below for your records. Keep this information with your proof of purchase in case your product requires service. Do not dispose of the warranty after it expires. In the event your product ever requires service, these instructions should be helpful in enabling you to obtain proper service.

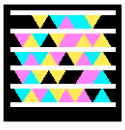
Product Model #_____

Product Serial #_____



Link to PMII upgrade instructions

Get the free mobile app at: http://gettag.mobi



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